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Secure Hash Algorithm  
Message Digest Length = 160

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One Block Message Sample

Input Message: "abc"

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Initial hash value:

H[0] = 67452301  
H[1] = EFC DAB89  
H[2] = 98BADC FE  
H[3] = 10325476  
H[4] = C3D2E1F0

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Block Contents:

W[0] = 61626380  
W[1] = 00000000  
W[2] = 00000000  
W[3] = 00000000  
W[4] = 00000000  
W[5] = 00000000  
W[6] = 00000000  
W[7] = 00000000  
W[8] = 00000000  
W[9] = 00000000  
W[10] = 00000000  
W[11] = 00000000  
W[12] = 00000000  
W[13] = 00000000  
W[14] = 00000000  
W[15] = 00000018

	A	B	C	D	E
t= 0:	0116FC33	67452301	7BF36AE2	98BADC FE	10325476
t= 1:	8990536D	0116FC33	59D148C0	7BF36AE2	98BADC FE
t= 2:	A1390F08	8990536D	C045BF0C	59D148C0	7BF36AE2
t= 3:	CDD8E11B	A1390F08	626414DB	C045BF0C	59D148C0
t= 4:	CFD499DE	CDD8E11B	284E43C2	626414DB	C045BF0C
t= 5:	3FC7CA40	CFD499DE	F3763846	284E43C2	626414DB
t= 6:	993E30C1	3FC7CA40	B3F52677	F3763846	284E43C2
t= 7:	9E8C07D4	993E30C1	0FF1F290	B3F52677	F3763846
t= 8:	4B6AE328	9E8C07D4	664F8C30	0FF1F290	B3F52677
t= 9:	8351F929	4B6AE328	27A301F5	664F8C30	0FF1F290
t=10:	FBDA9E89	8351F929	12DAB8CA	27A301F5	664F8C30
t=11:	63188FE4	FBDA9E89	60D47E4A	12DAB8CA	27A301F5

t=12:	4607B664	63188FE4	7EF6A7A2	60D47E4A	12DAB8CA
t=13:	9128F695	4607B664	18C623F9	7EF6A7A2	60D47E4A
t=14:	196BEE77	9128F695	1181ED99	18C623F9	7EF6A7A2
t=15:	20BDD62F	196BEE77	644A3DA5	1181ED99	18C623F9
t=16:	4E925823	20BDD62F	C65AFB9D	644A3DA5	1181ED99
t=17:	82AA6728	4E925823	C82F758B	C65AFB9D	644A3DA5
t=18:	DC64901D	82AA6728	D3A49608	C82F758B	C65AFB9D
t=19:	FD9E1D7D	DC64901D	20AA99CA	D3A49608	C82F758B
t=20:	1A37B0CA	FD9E1D7D	77192407	20AA99CA	D3A49608
t=21:	33A23BFC	1A37B0CA	7F67875F	77192407	20AA99CA
t=22:	21283486	33A23BFC	868DEC32	7F67875F	77192407
t=23:	D541F12D	21283486	0CE88EFF	868DEC32	7F67875F
t=24:	C7567DC6	D541F12D	884A0D21	0CE88EFF	868DEC32
t=25:	48413BA4	C7567DC6	75507C4B	884A0D21	0CE88EFF
t=26:	BE35FBD5	48413BA4	B1D59F71	75507C4B	884A0D21
t=27:	4AA84D97	BE35FBD5	12104EE9	B1D59F71	75507C4B
t=28:	8370B52E	4AA84D97	6F8D7EF5	12104EE9	B1D59F71
t=29:	C5FBAF5D	8370B52E	D2AA1365	6F8D7EF5	12104EE9
t=30:	1267B407	C5FBAF5D	A0DC2D4B	D2AA1365	6F8D7EF5
t=31:	3B845D33	1267B407	717EEBD7	A0DC2D4B	D2AA1365
t=32:	046FAA0A	3B845D33	C499ED01	717EEBD7	A0DC2D4B
t=33:	2C0EBC11	046FAA0A	CEE1174C	C499ED01	717EEBD7
t=34:	21796AD4	2C0EBC11	811BEA82	CEE1174C	C499ED01
t=35:	DCBBB0CB	21796AD4	4B03AF04	811BEA82	CEE1174C
t=36:	0F511FD8	DCBBB0CB	085E5AB5	4B03AF04	811BEA82
t=37:	DC63973F	0F511FD8	F72EEC32	085E5AB5	4B03AF04
t=38:	4C986405	DC63973F	03D447F6	F72EEC32	085E5AB5
t=39:	32DE1CBA	4C986405	F718E5CF	03D447F6	F72EEC32
t=40:	FC87DEDf	32DE1CBA	53261901	F718E5CF	03D447F6
t=41:	970A0D5C	FC87DEDf	8CB7872E	53261901	F718E5CF
t=42:	7F193DC5	970A0D5C	FF21F7B7	8CB7872E	53261901
t=43:	EE1B1AAF	7F193DC5	25C28357	FF21F7B7	8CB7872E
t=44:	40F28E09	EE1B1AAF	5FC64F71	25C28357	FF21F7B7
t=45:	1C51E1F2	40F28E09	FB86C6AB	5FC64F71	25C28357
t=46:	A01B846C	1C51E1F2	503CA382	FB86C6AB	5FC64F71
t=47:	BEAD02CA	A01B846C	8714787C	503CA382	FB86C6AB
t=48:	BAF39337	BEAD02CA	2806E11B	8714787C	503CA382
t=49:	120731C5	BAF39337	AFAB40B2	2806E11B	8714787C
t=50:	641DB2CE	120731C5	EEBCE4CD	AFAB40B2	2806E11B
t=51:	3847AD66	641DB2CE	4481CC71	EEBCE4CD	AFAB40B2
t=52:	E490436D	3847AD66	99076CB3	4481CC71	EEBCE4CD
t=53:	27E9F1D8	E490436D	8E11EB59	99076CB3	4481CC71
t=54:	7B71F76D	27E9F1D8	792410DB	8E11EB59	99076CB3
t=55:	5E6456AF	7B71F76D	09FA7C76	792410DB	8E11EB59
t=56:	C846093F	5E6456AF	5EDC7DDB	09FA7C76	792410DB
t=57:	D262FF50	C846093F	D79915AB	5EDC7DDB	09FA7C76
t=58:	09D785FD	D262FF50	F211824F	D79915AB	5EDC7DDB
t=59:	3F52DE5A	09D785FD	3498BFD4	F211824F	D79915AB
t=60:	D756C147	3F52DE5A	4275E17F	3498BFD4	F211824F
t=61:	548C9CB2	D756C147	8FD4B796	4275E17F	3498BFD4
t=62:	B66C020B	548C9CB2	F5D5B051	8FD4B796	4275E17F
t=63:	6B61C9E1	B66C020B	9523272C	F5D5B051	8FD4B796
t=64:	19DFA7AC	6B61C9E1	ED9B0082	9523272C	F5D5B051
t=65:	101655F9	19DFA7AC	5AD87278	ED9B0082	9523272C

t=66:	0C3DF2B4	101655F9	0677E9EB	5AD87278	ED9B0082
t=67:	78DD4D2B	0C3DF2B4	4405957E	0677E9EB	5AD87278
t=68:	497093C0	78DD4D2B	030F7CAD	4405957E	0677E9EB
t=69:	3F2588C2	497093C0	DE37534A	030F7CAD	4405957E
t=70:	C199F8C7	3F2588C2	125C24F0	DE37534A	030F7CAD
t=71:	39859DE7	C199F8C7	8FC96230	125C24F0	DE37534A
t=72:	EDB42DE4	39859DE7	F0667E31	8FC96230	125C24F0
t=73:	11793F6F	EDB42DE4	CE616779	F0667E31	8FC96230
t=74:	5EE76897	11793F6F	3B6D0B79	CE616779	F0667E31
t=75:	63F7DAB7	5EE76897	C45E4FDB	3B6D0B79	CE616779
t=76:	A079B7D9	63F7DAB7	D7B9DA25	C45E4FDB	3B6D0B79
t=77:	860D21CC	A079B7D9	D8FDF6AD	D7B9DA25	C45E4FDB
t=78:	5738D5E1	860D21CC	681E6DF6	D8FDF6AD	D7B9DA25
t=79:	42541B35	5738D5E1	21834873	681E6DF6	D8FDF6AD

$H[0] = 67452301 + 42541B35 = A9993E36$   
 $H[1] = EFC DAB89 + 5738D5E1 = 4706816A$   
 $H[2] = 98BADC FE + 21834873 = BA3E2571$   
 $H[3] = 10325476 + 681E6DF6 = 7850C26C$   
 $H[4] = C3D2E1F0 + D8FDF6AD = 9CD0D89D$

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Message Digest is  
                  A9993E36 4706816A BA3E2571 7850C26C 9CD0D89D

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Two Block Message Sample

Input Message:

"abcdbcdecdefdefgefghfghighijhijki jkljklmklmnlmnomnopnopq"

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Initial hash value:

$H[0] = 67452301$   
 $H[1] = EFC DAB89$   
 $H[2] = 98BADC FE$   
 $H[3] = 10325476$   
 $H[4] = C3D2E1F0$

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Block Contents:

$W[0] = 61626364$   
 $W[1] = 62636465$   
 $W[2] = 63646566$   
 $W[3] = 64656667$   
 $W[4] = 65666768$   
 $W[5] = 66676869$   
 $W[6] = 6768696A$

W[7] = 68696A6B  
 W[8] = 696A6B6C  
 W[9] = 6A6B6C6D  
 W[10] = 6B6C6D6E  
 W[11] = 6C6D6E6F  
 W[12] = 6D6E6F70  
 W[13] = 6E6F7071  
 W[14] = 80000000  
 W[15] = 00000000

	A	B	C	D	E
t= 0:	0116FC17	67452301	7BF36AE2	98BADCFE	10325476
t= 1:	EBF3B452	0116FC17	59D148C0	7BF36AE2	98BADCFE
t= 2:	5109913A	EBF3B452	C045BF05	59D148C0	7BF36AE2
t= 3:	2C4F6EAC	5109913A	BAFCED14	C045BF05	59D148C0
t= 4:	33F4AE5B	2C4F6EAC	9442644E	BAFCED14	C045BF05
t= 5:	96B85189	33F4AE5B	0B13DBAB	9442644E	BAFCED14
t= 6:	DB04CB58	96B85189	CCFD2B96	0B13DBAB	9442644E
t= 7:	45833F0F	DB04CB58	65AE1462	CCFD2B96	0B13DBAB
t= 8:	C565C35E	45833F0F	36C132D6	65AE1462	CCFD2B96
t= 9:	6350AFDA	C565C35E	D160CFC3	36C132D6	65AE1462
t=10:	8993EA77	6350AFDA	B15970D7	D160CFC3	36C132D6
t=11:	E19ECAA2	8993EA77	98D42BF6	B15970D7	D160CFC3
t=12:	8603481E	E19ECAA2	E264FA9D	98D42BF6	B15970D7
t=13:	32F94A85	8603481E	B867B2A8	E264FA9D	98D42BF6
t=14:	B2E7A8BE	32F94A85	A180D207	B867B2A8	E264FA9D
t=15:	42637E39	B2E7A8BE	4CBE52A1	A180D207	B867B2A8
t=16:	6B068048	42637E39	ACB9EA2F	4CBE52A1	A180D207
t=17:	426B9C35	6B068048	5098DF8E	ACB9EA2F	4CBE52A1
t=18:	944B1BD1	426B9C35	1AC1A012	5098DF8E	ACB9EA2F
t=19:	6C445652	944B1BD1	509AE70D	1AC1A012	5098DF8E
t=20:	95836DA5	6C445652	6512C6F4	509AE70D	1AC1A012
t=21:	09511177	95836DA5	9B111594	6512C6F4	509AE70D
t=22:	E2B92DC4	09511177	6560DB69	9B111594	6512C6F4
t=23:	FD224575	E2B92DC4	C254445D	6560DB69	9B111594
t=24:	EEB82D9A	FD224575	38AE4B71	C254445D	6560DB69
t=25:	5A142C1A	EEB82D9A	7F48915D	38AE4B71	C254445D
t=26:	2972F7C7	5A142C1A	BBAE0B66	7F48915D	38AE4B71
t=27:	D526A644	2972F7C7	96850B06	BBAE0B66	7F48915D
t=28:	E1122421	D526A644	CA5CBDF1	96850B06	BBAE0B66
t=29:	05B457B2	E1122421	3549A991	CA5CBDF1	96850B06
t=30:	A9C84BEC	05B457B2	78448908	3549A991	CA5CBDF1
t=31:	52E31F60	A9C84BEC	816D15EC	78448908	3549A991
t=32:	5AF3242C	52E31F60	2A7212FB	816D15EC	78448908
t=33:	31C756A9	5AF3242C	14B8C7D8	2A7212FB	816D15EC
t=34:	E9AC987C	31C756A9	16BCC90B	14B8C7D8	2A7212FB
t=35:	AB7C32EE	E9AC987C	4C71D5AA	16BCC90B	14B8C7D8
t=36:	5933FC99	AB7C32EE	3A6B261F	4C71D5AA	16BCC90B
t=37:	43F87AE9	5933FC99	AADF0CBB	3A6B261F	4C71D5AA
t=38:	24957F22	43F87AE9	564CFF26	AADF0CBB	3A6B261F
t=39:	ADEB7478	24957F22	50FE1EBA	564CFF26	AADF0CBB
t=40:	D70E5010	ADEB7478	89255FC8	50FE1EBA	564CFF26
t=41:	79BCFB08	D70E5010	2B7ADD1E	89255FC8	50FE1EBA
t=42:	F9BCB8DE	79BCFB08	35C39404	2B7ADD1E	89255FC8

t=43:	633E9561	F9BCB8DE	1E6F3EC2	35C39404	2B7ADD1E
t=44:	98C1EA64	633E9561	BE6F2E37	1E6F3EC2	35C39404
t=45:	C6EA241E	98C1EA64	58CFA558	BE6F2E37	1E6F3EC2
t=46:	A2AD4F02	C6EA241E	26307A99	58CFA558	BE6F2E37
t=47:	C8A69090	A2AD4F02	B1BA8907	26307A99	58CFA558
t=48:	88341600	C8A69090	A8AB53C0	B1BA8907	26307A99
t=49:	7E846F58	88341600	3229A424	A8AB53C0	B1BA8907
t=50:	86E358BA	7E846F58	220D0580	3229A424	A8AB53C0
t=51:	8D2E76C8	86E358BA	1FA11BD6	220D0580	3229A424
t=52:	CE892E10	8D2E76C8	A1B8D62E	1FA11BD6	220D0580
t=53:	EDEA95B1	CE892E10	234B9DB2	A1B8D62E	1FA11BD6
t=54:	36D1230A	EDEA95B1	33A24B84	234B9DB2	A1B8D62E
t=55:	776C3910	36D1230A	7B7AA56C	33A24B84	234B9DB2
t=56:	A681B723	776C3910	8DB448C2	7B7AA56C	33A24B84
t=57:	AC0A794F	A681B723	1DDB0E44	8DB448C2	7B7AA56C
t=58:	F03D3782	AC0A794F	E9A06DC8	1DDB0E44	8DB448C2
t=59:	9EF775C3	F03D3782	EB029E53	E9A06DC8	1DDB0E44
t=60:	36254B13	9EF775C3	BC0F4DE0	EB029E53	E9A06DC8
t=61:	4080D4DC	36254B13	E7BDDD70	BC0F4DE0	EB029E53
t=62:	2BFAF7A8	4080D4DC	CD8952C4	E7BDDD70	BC0F4DE0
t=63:	513F9CA0	2BFAF7A8	10203537	CD8952C4	E7BDDD70
t=64:	E5895C81	513F9CA0	0AFEBDEA	10203537	CD8952C4
t=65:	1037D2D5	E5895C81	144FE728	0AFEBDEA	10203537
t=66:	14A82DA9	1037D2D5	79625720	144FE728	0AFEBDEA
t=67:	6D17C9FD	14A82DA9	440DF4B5	79625720	144FE728
t=68:	2C7B07BD	6D17C9FD	452A0B6A	440DF4B5	79625720
t=69:	FD6EFFFF	2C7B07BD	5B45F27F	452A0B6A	440DF4B5
t=70:	112B96E3	FD6EFFFF	4B1EC1EF	5B45F27F	452A0B6A
t=71:	84065712	112B96E3	FF7DBBFF	4B1EC1EF	5B45F27F
t=72:	AB89FB71	84065712	C44AE5B8	FF7DBBFF	4B1EC1EF
t=73:	C5210E35	AB89FB71	A10195C4	C44AE5B8	FF7DBBFF
t=74:	352D9F4B	C5210E35	6AE27EDC	A10195C4	C44AE5B8
t=75:	1A0E0E0A	352D9F4B	7148438D	6AE27EDC	A10195C4
t=76:	D0D47349	1A0E0E0A	CD4B67D2	7148438D	6AE27EDC
t=77:	AD38620D	D0D47349	86838382	CD4B67D2	7148438D
t=78:	D3AD7C25	AD38620D	74351CD2	86838382	CD4B67D2
t=79:	8CE34517	D3AD7C25	6B4E1883	74351CD2	86838382

H[0] = 67452301 + 8CE34517 = F4286818

H[1] = EFCDAB89 + D3AD7C25 = C37B27AE

H[2] = 98BADCFE + 6B4E1883 = 0408F581

H[3] = 10325476 + 74351CD2 = 84677148

H[4] = C3D2E1F0 + 86838382 = 4A566572

=====  
Block Contents:

W[0] = 00000000

W[1] = 00000000

W[2] = 00000000

W[3] = 00000000

W[4] = 00000000

W[5] = 00000000

W[6] = 00000000

W[7] = 00000000  
W[8] = 00000000  
W[9] = 00000000  
W[10] = 00000000  
W[11] = 00000000  
W[12] = 00000000  
W[13] = 00000000  
W[14] = 00000000  
W[15] = 000001C0

	A	B	C	D	E
t= 0:	2DF257E9	F4286818	B0DEC9EB	0408F581	84677148
t= 1:	4D3DC58F	2DF257E9	3D0A1A06	B0DEC9EB	0408F581
t= 2:	C352BB05	4D3DC58F	4B7C95FA	3D0A1A06	B0DEC9EB
t= 3:	EEF743C6	C352BB05	D34F7163	4B7C95FA	3D0A1A06
t= 4:	41E34277	EEF743C6	70D4AEC1	D34F7163	4B7C95FA
t= 5:	5443915C	41E34277	BBBDD0F1	70D4AEC1	D34F7163
t= 6:	E7FA0377	5443915C	D078D09D	BBBDD0F1	70D4AEC1
t= 7:	C6946813	E7FA0377	1510E457	D078D09D	BBBDD0F1
t= 8:	FDDE1DE1	C6946813	F9FE80DD	1510E457	D078D09D
t= 9:	B8538ACA	FDDE1DE1	F1A51A04	F9FE80DD	1510E457
t=10:	6BA94F63	B8538ACA	7F778778	F1A51A04	F9FE80DD
t=11:	43A2792F	6BA94F63	AE14E2B2	7F778778	F1A51A04
t=12:	FECD7BBF	43A2792F	DAEA53D8	AE14E2B2	7F778778
t=13:	A2604CA8	FECD7BBF	D0E89E4B	DAEA53D8	AE14E2B2
t=14:	258B0BAA	A2604CA8	FFB35EEF	D0E89E4B	DAEA53D8
t=15:	D9772360	258B0BAA	2898132A	FFB35EEF	D0E89E4B
t=16:	5507DB6E	D9772360	8962C2EA	2898132A	FFB35EEF
t=17:	A51B58BC	5507DB6E	365DC8D8	8962C2EA	2898132A
t=18:	C2EB709F	A51B58BC	9541F6DB	365DC8D8	8962C2EA
t=19:	D8992153	C2EB709F	2946D62F	9541F6DB	365DC8D8
t=20:	37482F5F	D8992153	F0BADC27	2946D62F	9541F6DB
t=21:	EE8700BD	37482F5F	F6264854	F0BADC27	2946D62F
t=22:	9AD594B9	EE8700BD	CDD20BD7	F6264854	F0BADC27
t=23:	8FBAA5B9	9AD594B9	7BA1C02F	CDD20BD7	F6264854
t=24:	88FB5867	8FBAA5B9	66B5652E	7BA1C02F	CDD20BD7
t=25:	EEC50521	88FB5867	63EEA96E	66B5652E	7BA1C02F
t=26:	50BCE434	EEC50521	E23ED619	63EEA96E	66B5652E
t=27:	5C416DAF	50BCE434	7BB14148	E23ED619	63EEA96E
t=28:	2429BE5F	5C416DAF	142F390D	7BB14148	E23ED619
t=29:	0A2FB108	2429BE5F	D7105B6B	142F390D	7BB14148
t=30:	17986223	0A2FB108	C90A6F97	D7105B6B	142F390D
t=31:	8A4AF384	17986223	028BEC42	C90A6F97	D7105B6B
t=32:	6B629993	8A4AF384	C5E61888	028BEC42	C90A6F97
t=33:	F15F04F3	6B629993	2292BCE1	C5E61888	028BEC42
t=34:	295CC25B	F15F04F3	DAD8A664	2292BCE1	C5E61888
t=35:	696DA404	295CC25B	FC57C13C	DAD8A664	2292BCE1
t=36:	CEF5AE12	696DA404	CA573096	FC57C13C	DAD8A664
t=37:	87D5B80C	CEF5AE12	1A5B6901	CA573096	FC57C13C
t=38:	84E2A5F2	87D5B80C	B3BD6B84	1A5B6901	CA573096
t=39:	03BB6310	84E2A5F2	21F56E03	B3BD6B84	1A5B6901
t=40:	C2D8F75F	03BB6310	A138A97C	21F56E03	B3BD6B84
t=41:	BFB25768	C2D8F75F	00EED8C4	A138A97C	21F56E03
t=42:	28589152	BFB25768	F0B63DD7	00EED8C4	A138A97C

t=43:	EC1D3D61	28589152	2FEC95DA	F0B63DD7	00EED8C4
t=44:	3CAED7AF	EC1D3D61	8A162454	2FEC95DA	F0B63DD7
t=45:	C3D033EA	3CAED7AF	7B074F58	8A162454	2FEC95DA
t=46:	7316056A	C3D033EA	CF2BB5EB	7B074F58	8A162454
t=47:	46F93B68	7316056A	B0F40CFA	CF2BB5EB	7B074F58
t=48:	DC8E7F26	46F93B68	9CC5815A	B0F40CFA	CF2BB5EB
t=49:	850D411C	DC8E7F26	11BE4EDA	9CC5815A	B0F40CFA
t=50:	7E4672C0	850D411C	B7239FC9	11BE4EDA	9CC5815A
t=51:	89FBD41D	7E4672C0	21435047	B7239FC9	11BE4EDA
t=52:	1797E228	89FBD41D	1F919CB0	21435047	B7239FC9
t=53:	431D65BC	1797E228	627EF507	1F919CB0	21435047
t=54:	2BDBB8CB	431D65BC	05E5F88A	627EF507	1F919CB0
t=55:	6DA72E7F	2BDBB8CB	10C7596F	05E5F88A	627EF507
t=56:	A8495A9B	6DA72E7F	CAF6EE32	10C7596F	05E5F88A
t=57:	E785655A	A8495A9B	DB69CB9F	CAF6EE32	10C7596F
t=58:	5B086C42	E785655A	EA1256A6	DB69CB9F	CAF6EE32
t=59:	A65818F7	5B086C42	B9E15956	EA1256A6	DB69CB9F
t=60:	7AAB101B	A65818F7	96C21B10	B9E15956	EA1256A6
t=61:	93614C9C	7AAB101B	E996063D	96C21B10	B9E15956
t=62:	F66D9BF4	93614C9C	DEAAC406	E996063D	96C21B10
t=63:	D504902B	F66D9BF4	24D85327	DEAAC406	E996063D
t=64:	60A9DA62	D504902B	3D9B66FD	24D85327	DEAAC406
t=65:	8B687819	60A9DA62	F541240A	3D9B66FD	24D85327
t=66:	083E90C3	8B687819	982A7698	F541240A	3D9B66FD
t=67:	F6226BBF	083E90C3	62DA1E06	982A7698	F541240A
t=68:	76C0563B	F6226BBF	C20FA430	62DA1E06	982A7698
t=69:	989DD165	76C0563B	FD889AEF	C20FA430	62DA1E06
t=70:	8B2C7573	989DD165	DDB0158E	FD889AEF	C20FA430
t=71:	AE1B8E7B	8B2C7573	66277459	DDB0158E	FD889AEF
t=72:	CA1840DE	AE1B8E7B	E2CB1D5C	66277459	DDB0158E
t=73:	16F3BABB	CA1840DE	EB86E39E	E2CB1D5C	66277459
t=74:	D28D83AD	16F3BABB	B2861037	EB86E39E	E2CB1D5C
t=75:	6BC02DFE	D28D83AD	C5BCEEAE	B2861037	EB86E39E
t=76:	D3A6E275	6BC02DFE	74A360EB	C5BCEEAE	B2861037
t=77:	DA955482	D3A6E275	9AF00B7F	74A360EB	C5BCEEAE
t=78:	58C0AAC0	DA955482	74E9B89D	9AF00B7F	74A360EB
t=79:	906FD62C	58C0AAC0	B6A55520	74E9B89D	9AF00B7F

H[0] = F4286818 + 906FD62C = 84983E44  
H[1] = C37B27AE + 58C0AAC0 = 1C3BD26E  
H[2] = 0408F581 + B6A55520 = BAAE4AA1  
H[3] = 84677148 + 74E9B89D = F95129E5  
H[4] = 4A566572 + 9AF00B7F = E54670F1

-----

Message Digest is  
84983E44 1C3BD26E BAAE4AA1 F95129E5 E54670F1

#####

Secure Hash Algorithm  
Message Digest Length = 224

#####

One Block Message Sample

Input Message: "abc"

=====

Initial hash value:

H[0] = C1059ED8  
H[1] = 367CD507  
H[2] = 3070DD17  
H[3] = F70E5939  
H[4] = FFC00B31  
H[5] = 68581511  
H[6] = 64F98FA7  
H[7] = BEFA4FA4

=====

Block Contents:

W[0] = 61626380  
W[1] = 00000000  
W[2] = 00000000  
W[3] = 00000000  
W[4] = 00000000  
W[5] = 00000000  
W[6] = 00000000  
W[7] = 00000000  
W[8] = 00000000  
W[9] = 00000000  
W[10] = 00000000  
W[11] = 00000000  
W[12] = 00000000  
W[13] = 00000000  
W[14] = 00000000  
W[15] = 00000018

	A	B	C	D	E	F	G	H
t= 0:	0E96B2DA	C1059ED8	367CD507	3070DD17	0434225E	FFC00B31	68581511	64F98FA7
t= 1:	C20DAB6B	0E96B2DA	C1059ED8	367CD507	9CAB416F	0434225E	FFC00B31	68581511
t= 2:	AB113B7A	C20DAB6B	0E96B2DA	C1059ED8	82177FE8	9CAB416F	0434225E	FFC00B31
t= 3:	8253CC1A	AB113B7A	C20DAB6B	0E96B2DA	8346B27D	82177FE8	9CAB416F	0434225E
t= 4:	08A0DC0C	8253CC1A	AB113B7A	C20DAB6B	05B557DB	8346B27D	82177FE8	9CAB416F
t= 5:	B2CA3A91	08A0DC0C	8253CC1A	AB113B7A	898DC7BB	05B557DB	8346B27D	82177FE8
t= 6:	0B6B9023	B2CA3A91	08A0DC0C	8253CC1A	A2E49147	898DC7BB	05B557DB	8346B27D
t= 7:	F09D116D	0B6B9023	B2CA3A91	08A0DC0C	7A84120D	A2E49147	898DC7BB	05B557DB
t= 8:	ED6FA633	F09D116D	0B6B9023	B2CA3A91	C037FAAD	7A84120D	A2E49147	898DC7BB
t= 9:	55E6A367	ED6FA633	F09D116D	0B6B9023	AAE50091	C037FAAD	7A84120D	A2E49147
t=10:	0817E82B	55E6A367	ED6FA633	F09D116D	C8C53A2C	AAE50091	C037FAAD	7A84120D
t=11:	17142334	0817E82B	55E6A367	ED6FA633	DD4C7BE9	C8C53A2C	AAE50091	C037FAAD
t=12:	FC4F023E	17142334	0817E82B	55E6A367	87BEA51A	DD4C7BE9	C8C53A2C	AAE50091
t=13:	BE316902	FC4F023E	17142334	0817E82B	65141125	87BEA51A	DD4C7BE9	C8C53A2C
t=14:	1D80D178	BE316902	FC4F023E	17142334	4545F53A	65141125	87BEA51A	DD4C7BE9
t=15:	9F341A45	1D80D178	BE316902	FC4F023E	6A61C411	4545F53A	65141125	87BEA51A
t=16:	0F324DB9	9F341A45	1D80D178	BE316902	06C80D6A	6A61C411	4545F53A	65141125
t=17:	FFE7012B	0F324DB9	9F341A45	1D80D178	B7B601F4	06C80D6A	6A61C411	4545F53A
t=18:	62932AB8	FFE7012B	0F324DB9	9F341A45	763B627A	B7B601F4	06C80D6A	6A61C411

t=19: 5207D867 62932AB8 FFE7012B 0F324DB9 7FBBA936 763B627A B7B601F4 06C80D6A  
t=20: 07D55CCB 5207D867 62932AB8 FFE7012B 9BA5A6EA 7FBBA936 763B627A B7B601F4  
t=21: DECE98A4 07D55CCB 5207D867 62932AB8 293FFB5D 9BA5A6EA 7FBBA936 763B627A  
t=22: E62A812E DECE98A4 07D55CCB 5207D867 28FE0FD9 293FFB5D 9BA5A6EA 7FBBA936  
t=23: 57206FB8 E62A812E DECE98A4 07D55CCB C76084EA 28FE0FD9 293FFB5D 9BA5A6EA  
t=24: 6A6ABCF0 57206FB8 E62A812E DECE98A4 B2614C5E C76084EA 28FE0FD9 293FFB5D  
t=25: 937514F0 6A6ABCF0 57206FB8 E62A812E B42EC21C B2614C5E C76084EA 28FE0FD9  
t=26: 82AF3FFB 937514F0 6A6ABCF0 57206FB8 BE6F6760 B42EC21C B2614C5E C76084EA  
t=27: ECA3BCD5 82AF3FFB 937514F0 6A6ABCF0 1DCCBB10 BE6F6760 B42EC21C B2614C5E  
t=28: 2D1576C4 ECA3BCD5 82AF3FFB 937514F0 01641929 1DCCBB10 BE6F6760 B42EC21C  
t=29: FE3C8658 2D1576C4 ECA3BCD5 82AF3FFB FC4B36C5 01641929 1DCCBB10 BE6F6760  
t=30: 0D7CCE07 FE3C8658 2D1576C4 ECA3BCD5 A4A4A3A4 FC4B36C5 01641929 1DCCBB10  
t=31: CCE1951D 0D7CCE07 FE3C8658 2D1576C4 4BE9475C A4A4A3A4 FC4B36C5 01641929  
t=32: 09B76257 CCE1951D 0D7CCE07 FE3C8658 0CCDD86 4BE9475C A4A4A3A4 FC4B36C5  
t=33: F827767E 09B76257 CCE1951D 0D7CCE07 DB116DB7 0CCDD86 4BE9475C A4A4A3A4  
t=34: E4A0BB48 F827767E 09B76257 CCE1951D 994E2BAC DB116DB7 0CCDD86 4BE9475C  
t=35: D8BB1041 E4A0BB48 F827767E 09B76257 5B730ABB 994E2BAC DB116DB7 0CCDD86  
t=36: 2A2E32F4 D8BB1041 E4A0BB48 F827767E 22E15C59 5B730ABB 994E2BAC DB116DB7  
t=37: 0D275CA8 2A2E32F4 D8BB1041 E4A0BB48 F6C39382 22E15C59 5B730ABB 994E2BAC  
t=38: 7902369C 0D275CA8 2A2E32F4 D8BB1041 D9F8C2E0 F6C39382 22E15C59 5B730ABB  
t=39: F3C80288 7902369C 0D275CA8 2A2E32F4 00E3A7BB D9F8C2E0 F6C39382 22E15C59  
t=40: 483BBA4D F3C80288 7902369C 0D275CA8 F0A8198C 00E3A7BB D9F8C2E0 F6C39382  
t=41: D75D4D26 483BBA4D F3C80288 7902369C FCECDC4 F0A8198C 00E3A7BB D9F8C2E0  
t=42: 0744B618 D75D4D26 483BBA4D F3C80288 03186FAA FCECDC4 F0A8198C 00E3A7BB  
t=43: 9CCE9F01 0744B618 D75D4D26 483BBA4D A56F6BBF 03186FAA FCECDC4 F0A8198C  
t=44: A3701BD9 9CCE9F01 0744B618 D75D4D26 AF1BEF5F A56F6BBF 03186FAA FCECDC4  
t=45: 131D4C09 A3701BD9 9CCE9F01 0744B618 ECB77E1B AF1BEF5F A56F6BBF 03186FAA  
t=46: FB3777D9 131D4C09 A3701BD9 9CCE9F01 1D601F44 ECB77E1B AF1BEF5F A56F6BBF  
t=47: 847EA00E FB3777D9 131D4C09 A3701BD9 503A7B95 1D601F44 ECB77E1B AF1BEF5F  
t=48: AAA69347 847EA00E FB3777D9 131D4C09 5EEB9930 503A7B95 1D601F44 ECB77E1B  
t=49: 505CAF28 AAA69347 847EA00E FB3777D9 CE695893 5EEB9930 503A7B95 1D601F44  
t=50: 675E0B02 505CAF28 AAA69347 847EA00E C22DD75F CE695893 5EEB9930 503A7B95  
t=51: ABD26099 675E0B02 505CAF28 AAA69347 1409C3F8 C22DD75F CE695893 5EEB9930  
t=52: 0DF9857A ABD26099 675E0B02 505CAF28 2D864D9F 1409C3F8 C22DD75F CE695893  
t=53: 308B8799 0DF9857A ABD26099 675E0B02 02524F02 2D864D9F 1409C3F8 C22DD75F  
t=54: 909CC059 308B8799 0DF9857A ABD26099 6F2A444A 02524F02 2D864D9F 1409C3F8  
t=55: 8D25BD94 909CC059 308B8799 0DF9857A 1273C622 6F2A444A 02524F02 2D864D9F  
t=56: F32141DA 8D25BD94 909CC059 308B8799 1771ED3F 1273C622 6F2A444A 02524F02  
t=57: 8CE24395 F32141DA 8D25BD94 909CC059 F52F66A6 1771ED3F 1273C622 6F2A444A  
t=58: 07BCD846 8CE24395 F32141DA 8D25BD94 149DB547 F52F66A6 1771ED3F 1273C622  
t=59: 622D5E5B 07BCD846 8CE24395 F32141DA B6F4C630 149DB547 F52F66A6 1771ED3F  
t=60: C693FC7A 622D5E5B 07BCD846 8CE24395 13DFB889 B6F4C630 149DB547 F52F66A6  
t=61: 55D1C760 C693FC7A 622D5E5B 07BCD846 7E730E00 13DFB889 B6F4C630 149DB547  
t=62: FD89031B 55D1C760 C693FC7A 622D5E5B 55489EE6 7E730E00 13DFB889 B6F4C630  
t=63: 6203DE4A FD89031B 55D1C760 C693FC7A 2AEDB1B3 55489EE6 7E730E00 13DFB889

H[0] = C1059ED8 + 6203DE4A = 23097D22  
H[1] = 367CD507 + FD89031B = 3405D822  
H[2] = 3070DD17 + 55D1C760 = 8642A477  
H[3] = F70E5939 + C693FC7A = BDA255B3  
H[4] = FFC00B31 + 2AEDB1B3 = 2AADBCE4  
H[5] = 68581511 + 55489EE6 = BDA0B3F7  
H[6] = 64F98FA7 + 7E730E00 = E36C9DA7  
H[7] = BEFA4FA4 + 13DFB889 = D2DA082D

-----  
Message Digest is

23097D22

3405D822 8642A477 BDA255B3 2AADBCE4 BDA0B3F7 E36C9DA7

=====

Two Block Message Sample

Input Message:

"abcdbcdecdefdefgefghfghighijhijhijkljklmklmnlmnomnopnopq"

=====

Initial hash value:

- H[0] = C1059ED8
- H[1] = 367CD507
- H[2] = 3070DD17
- H[3] = F70E5939
- H[4] = FFC00B31
- H[5] = 68581511
- H[6] = 64F98FA7
- H[7] = BEFA4FA4

=====

Block Contents:

- W[0] = 61626364
- W[1] = 62636465
- W[2] = 63646566
- W[3] = 64656667
- W[4] = 65666768
- W[5] = 66676869
- W[6] = 6768696A
- W[7] = 68696A6B
- W[8] = 696A6B6C
- W[9] = 6A6B6C6D
- W[10] = 6B6C6D6E
- W[11] = 6C6D6E6F
- W[12] = 6D6E6F70
- W[13] = 6E6F7071
- W[14] = 80000000
- W[15] = 00000000

	A	B	C	D	E	F	G	H
t= 0:	0E96B2BE	C1059ED8	367CD507	3070DD17	04342242	FFC00B31	68581511	64F98FA7
t= 1:	51D17D7B	0E96B2BE	C1059ED8	367CD507	2F8EA3D4	04342242	FFC00B31	68581511
t= 2:	FF1CBD7F	51D17D7B	0E96B2BE	C1059ED8	79A896FA	2F8EA3D4	04342242	FFC00B31
t= 3:	24BCC047	FF1CBD7F	51D17D7B	0E96B2BE	1F60795A	79A896FA	2F8EA3D4	04342242
t= 4:	7D56A6AC	24BCC047	FF1CBD7F	51D17D7B	DE395286	1F60795A	79A896FA	2F8EA3D4
t= 5:	745BEB11	7D56A6AC	24BCC047	FF1CBD7F	D863D132	DE395286	1F60795A	79A896FA
t= 6:	0DD41573	745BEB11	7D56A6AC	24BCC047	2E60D323	D863D132	DE395286	1F60795A
t= 7:	9A2541FD	0DD41573	745BEB11	7D56A6AC	08D2B348	2E60D323	D863D132	DE395286
t= 8:	3140E909	9A2541FD	0DD41573	745BEB11	95DFD707	08D2B348	2E60D323	D863D132
t= 9:	B2954925	3140E909	9A2541FD	0DD41573	05EF5E3D	95DFD707	08D2B348	2E60D323
t=10:	B2A874FB	B2954925	3140E909	9A2541FD	9DCAF118	05EF5E3D	95DFD707	08D2B348
t=11:	116CE44D	B2A874FB	B2954925	3140E909	0E6D566A	9DCAF118	05EF5E3D	95DFD707
t=12:	5FF9349A	116CE44D	B2A874FB	B2954925	08EB3305	0E6D566A	9DCAF118	05EF5E3D
t=13:	7FA9D65D	5FF9349A	116CE44D	B2A874FB	4657CF17	08EB3305	0E6D566A	9DCAF118
t=14:	006B1B16	7FA9D65D	5FF9349A	116CE44D	08D09E8D	4657CF17	08EB3305	0E6D566A
t=15:	B301C98A	006B1B16	7FA9D65D	5FF9349A	6FBFA1D	08D09E8D	4657CF17	08EB3305
t=16:	E623ECC0	B301C98A	006B1B16	7FA9D65D	2B3F859C	6FBFA1D	08D09E8D	4657CF17
t=17:	D9244A78	E623ECC0	B301C98A	006B1B16	E66D8D9C	2B3F859C	6FBFA1D	08D09E8D
t=18:	99C72726	D9244A78	E623ECC0	B301C98A	B26A409C	E66D8D9C	2B3F859C	6FBFA1D
t=19:	AB0CBED2	99C72726	D9244A78	E623ECC0	010D7C65	B26A409C	E66D8D9C	2B3F859C
t=20:	78062878	AB0CBED2	99C72726	D9244A78	5678A949	010D7C65	B26A409C	E66D8D9C
t=21:	D7C5C5D5	78062878	AB0CBED2	99C72726	B280360C	5678A949	010D7C65	B26A409C
t=22:	BAD2EE72	D7C5C5D5	78062878	AB0CBED2	0D4CD0C4	B280360C	5678A949	010D7C65
t=23:	BCF47346	BAD2EE72	D7C5C5D5	78062878	D6A19DC8	0D4CD0C4	B280360C	5678A949
t=24:	5ECC417B	BCF47346	BAD2EE72	D7C5C5D5	3337A11C	D6A19DC8	0D4CD0C4	B280360C

t=25: E15BFA57 5ECC417B BCF47346 BAD2EE72 0CE15173 3337A11C D6A19DC8 0D4CD0C4  
t=26: FAE6167B E15BFA57 5ECC417B BCF47346 73DBE5C7 0CE15173 3337A11C D6A19DC8  
t=27: 991C3F99 FAE6167B E15BFA57 5ECC417B 8602A31F 73DBE5C7 0CE15173 3337A11C  
t=28: 7055843B 991C3F99 FAE6167B E15BFA57 EB4DE5F8 8602A31F 73DBE5C7 0CE15173  
t=29: 08DCFB6D 7055843B 991C3F99 FAE6167B 4606D126 EB4DE5F8 8602A31F 73DBE5C7  
t=30: 2964B340 08DCFB6D 7055843B 991C3F99 213B3E63 4606D126 EB4DE5F8 8602A31F  
t=31: 5B3677D0 2964B340 08DCFB6D 7055843B C9689CB0 213B3E63 4606D126 EB4DE5F8  
t=32: 1EE0FE7D 5B3677D0 2964B340 08DCFB6D 14318A4D C9689CB0 213B3E63 4606D126  
t=33: 6B918D6E 1EE0FE7D 5B3677D0 2964B340 216054A8 14318A4D C9689CB0 213B3E63  
t=34: A6710D0D 6B918D6E 1EE0FE7D 5B3677D0 BC823A58 216054A8 14318A4D C9689CB0  
t=35: 5E198FED A6710D0D 6B918D6E 1EE0FE7D C49933FE BC823A58 216054A8 14318A4D  
t=36: 136C320A 5E198FED A6710D0D 6B918D6E 75687CCB C49933FE BC823A58 216054A8  
t=37: 40EE0C43 136C320A 5E198FED A6710D0D F1C2CAF6 75687CCB C49933FE BC823A58  
t=38: AA96D78C 40EE0C43 136C320A 5E198FED F48B4CEB F1C2CAF6 75687CCB C49933FE  
t=39: 27C97B86 AA96D78C 40EE0C43 136C320A B556216A F48B4CEB F1C2CAF6 75687CCB  
t=40: B07BD327 27C97B86 AA96D78C 40EE0C43 30EC2D76 B556216A F48B4CEB F1C2CAF6  
t=41: D88D56BD B07BD327 27C97B86 AA96D78C DC2FA5A4 30EC2D76 B556216A F48B4CEB  
t=42: 5C775077 D88D56BD B07BD327 27C97B86 5FAD6DB5 DC2FA5A4 30EC2D76 B556216A  
t=43: 1526CCA3 5C775077 D88D56BD B07BD327 DA8A0B1C 5FAD6DB5 DC2FA5A4 30EC2D76  
t=44: C09DDA14 1526CCA3 5C775077 D88D56BD D98EC23A DA8A0B1C 5FAD6DB5 DC2FA5A4  
t=45: F885E124 C09DDA14 1526CCA3 5C775077 E4F23E41 D98EC23A DA8A0B1C 5FAD6DB5  
t=46: 5447F0AD F885E124 C09DDA14 1526CCA3 BFB7497C E4F23E41 D98EC23A DA8A0B1C  
t=47: E6227061 5447F0AD F885E124 C09DDA14 5B09619B BFB7497C E4F23E41 D98EC23A  
t=48: 009CEBEA E6227061 5447F0AD F885E124 59ECAB46 5B09619B BFB7497C E4F23E41  
t=49: 92B0D169 009CEBEA E6227061 5447F0AD 9A572B85 59ECAB46 5B09619B BFB7497C  
t=50: 8D224E54 92B0D169 009CEBEA E6227061 32144602 9A572B85 59ECAB46 5B09619B  
t=51: C1FCAC71 8D224E54 92B0D169 009CEBEA 4E98A8B7 32144602 9A572B85 59ECAB46  
t=52: 8E6CE843 C1FCAC71 8D224E54 92B0D169 2C1823BE 4E98A8B7 32144602 9A572B85  
t=53: 000F54DE 8E6CE843 C1FCAC71 8D224E54 F32CF2A8 2C1823BE 4E98A8B7 32144602  
t=54: 2FE2AF3A 000F54DE 8E6CE843 C1FCAC71 20F763EE F32CF2A8 2C1823BE 4E98A8B7  
t=55: 1FD539AF 2FE2AF3A 000F54DE 8E6CE843 5ACDBD62 20F763EE F32CF2A8 2C1823BE  
t=56: 7F86644E 1FD539AF 2FE2AF3A 000F54DE 9FC10216 5ACDBD62 20F763EE F32CF2A8  
t=57: 0E08DC77 7F86644E 1FD539AF 2FE2AF3A 2A4EA749 9FC10216 5ACDBD62 20F763EE  
t=58: 0B9F4851 0E08DC77 7F86644E 1FD539AF 18B1DFB9 2A4EA749 9FC10216 5ACDBD62  
t=59: DBCE97C3 0B9F4851 0E08DC77 7F86644E 6EC6BA5B 18B1DFB9 2A4EA749 9FC10216  
t=60: 3CD78FE1 DBCE97C3 0B9F4851 0E08DC77 3E1CA2F1 6EC6BA5B 18B1DFB9 2A4EA749  
t=61: 35F4BF1C 3CD78FE1 DBCE97C3 0B9F4851 BA1A8A1B 3E1CA2F1 6EC6BA5B 18B1DFB9  
t=62: 86795A7D 35F4BF1C 3CD78FE1 DBCE97C3 2CE11258 BA1A8A1B 3E1CA2F1 6EC6BA5B  
t=63: C14B4785 86795A7D 35F4BF1C 3CD78FE1 1108AC7F 2CE11258 BA1A8A1B 3E1CA2F1

H[0] = C1059ED8 + C14B4785 = 8250E65D  
H[1] = 367CD507 + 86795A7D = BCF62F84  
H[2] = 3070DD17 + 35F4BF1C = 66659C33  
H[3] = F70E5939 + 3CD78FE1 = 33E5E91A  
H[4] = FFC00B31 + 1108AC7F = 10C8B7B0  
H[5] = 68581511 + 2CE11258 = 95392769  
H[6] = 64F98FA7 + BA1A8A1B = 1F1419C2  
H[7] = BEFA4FA4 + 3E1CA2F1 = FD16F295

=====

Block Contents:  
W[0] = 00000000  
W[1] = 00000000  
W[2] = 00000000  
W[3] = 00000000  
W[4] = 00000000  
W[5] = 00000000  
W[6] = 00000000  
W[7] = 00000000  
W[8] = 00000000  
W[9] = 00000000  
W[10] = 00000000  
W[11] = 00000000

W[12] = 00000000  
W[13] = 00000000  
W[14] = 00000000  
W[15] = 000001C0

	A	B	C	D	E	F	G	H
t= 0:	692E407D	8250E65D	BCF62F84	66659C33	E4BE1E69	10C8B7B0	95392769	1F1419C2
t= 1:	608D83E1	692E407D	8250E65D	BCF62F84	3DDB8CEE	E4BE1E69	10C8B7B0	95392769
t= 2:	09BFA89F	608D83E1	692E407D	8250E65D	F5813490	3DDB8CEE	E4BE1E69	10C8B7B0
t= 3:	2375FBC5	09BFA89F	608D83E1	692E407D	C3E18529	F5813490	3DDB8CEE	E4BE1E69
t= 4:	717E79E7	2375FBC5	09BFA89F	608D83E1	77D39CCC	C3E18529	F5813490	3DDB8CEE
t= 5:	A9319748	717E79E7	2375FBC5	09BFA89F	FDBB9913	77D39CCC	C3E18529	F5813490
t= 6:	27A42F04	A9319748	717E79E7	2375FBC5	B999CCE4	FDBB9913	77D39CCC	C3E18529
t= 7:	3419081E	27A42F04	A9319748	717E79E7	54E69E21	B999CCE4	FDBB9913	77D39CCC
t= 8:	0AB393C2	3419081E	27A42F04	A9319748	AD29647E	54E69E21	B999CCE4	FDBB9913
t= 9:	006784EB	0AB393C2	3419081E	27A42F04	AFF457E7	AD29647E	54E69E21	B999CCE4
t=10:	ECD5C9DB	006784EB	0AB393C2	3419081E	9AF42A0E	AFF457E7	AD29647E	54E69E21
t=11:	4762E8F0	ECD5C9DB	006784EB	0AB393C2	8FB6F3D8	9AF42A0E	AFF457E7	AD29647E
t=12:	AF93B2A8	4762E8F0	ECD5C9DB	006784EB	97E63D39	8FB6F3D8	9AF42A0E	AFF457E7
t=13:	533C517C	AF93B2A8	4762E8F0	ECD5C9DB	7364BAE6	97E63D39	8FB6F3D8	9AF42A0E
t=14:	03C0A51B	533C517C	AF93B2A8	4762E8F0	3AFB010D	7364BAE6	97E63D39	8FB6F3D8
t=15:	5FD065BD	03C0A51B	533C517C	AF93B2A8	B8E64229	3AFB010D	7364BAE6	97E63D39
t=16:	18B268B5	5FD065BD	03C0A51B	533C517C	38EDA38D	B8E64229	3AFB010D	7364BAE6
t=17:	B87D63B4	18B268B5	5FD065BD	03C0A51B	25C2C397	38EDA38D	B8E64229	3AFB010D
t=18:	B1D846E0	B87D63B4	18B268B5	5FD065BD	D674405F	25C2C397	38EDA38D	B8E64229
t=19:	8BA0AED6	B1D846E0	B87D63B4	18B268B5	B8109422	D674405F	25C2C397	38EDA38D
t=20:	1485F843	8BA0AED6	B1D846E0	B87D63B4	1C58CD66	B8109422	D674405F	25C2C397
t=21:	238F4CDA	1485F843	8BA0AED6	B1D846E0	39B2EB5F	1C58CD66	B8109422	D674405F
t=22:	7031B061	238F4CDA	1485F843	8BA0AED6	4B8262AD	39B2EB5F	1C58CD66	B8109422
t=23:	D4E7EC62	7031B061	238F4CDA	1485F843	163C3AA0	4B8262AD	39B2EB5F	1C58CD66
t=24:	66582DF3	D4E7EC62	7031B061	238F4CDA	C0976260	163C3AA0	4B8262AD	39B2EB5F
t=25:	DEDB8199	66582DF3	D4E7EC62	7031B061	B73E2DEC	C0976260	163C3AA0	4B8262AD
t=26:	F8536917	DEDB8199	66582DF3	D4E7EC62	7C2AF9C4	B73E2DEC	C0976260	163C3AA0
t=27:	D7333B8A	F8536917	DEDB8199	66582DF3	B2B0B71A	7C2AF9C4	B73E2DEC	C0976260
t=28:	760847C1	D7333B8A	F8536917	DEDB8199	5898EFF2	B2B0B71A	7C2AF9C4	B73E2DEC
t=29:	7EABC6D7	760847C1	D7333B8A	F8536917	24DD3883	5898EFF2	B2B0B71A	7C2AF9C4
t=30:	90C49624	7EABC6D7	760847C1	D7333B8A	CCE25E67	24DD3883	5898EFF2	B2B0B71A
t=31:	0B876264	90C49624	7EABC6D7	760847C1	E4E4A53B	CCE25E67	24DD3883	5898EFF2
t=32:	04CB36C0	0B876264	90C49624	7EABC6D7	5403A391	E4E4A53B	CCE25E67	24DD3883
t=33:	D58CC34A	04CB36C0	0B876264	90C49624	B78767C3	5403A391	E4E4A53B	CCE25E67
t=34:	0ED14DD7	D58CC34A	04CB36C0	0B876264	FD CDC9D9	B78767C3	5403A391	E4E4A53B
t=35:	5A89A942	0ED14DD7	D58CC34A	04CB36C0	790C4A20	FD CDC9D9	B78767C3	5403A391
t=36:	4D30424C	5A89A942	0ED14DD7	D58CC34A	F95BF853	790C4A20	FD CDC9D9	B78767C3
t=37:	47F58C5C	4D30424C	5A89A942	0ED14DD7	0EC9BE3B	F95BF853	790C4A20	FD CDC9D9
t=38:	B5AD85D7	47F58C5C	4D30424C	5A89A942	CF9F1DBE	0EC9BE3B	F95BF853	790C4A20
t=39:	762FECBC	B5AD85D7	47F58C5C	4D30424C	15427ED3	CF9F1DBE	0EC9BE3B	F95BF853
t=40:	32ABE746	762FECBC	B5AD85D7	47F58C5C	4053E12E	15427ED3	CF9F1DBE	0EC9BE3B
t=41:	84ADB2A0	32ABE746	762FECBC	B5AD85D7	7CECE4E2	4053E12E	15427ED3	CF9F1DBE
t=42:	C6E1C5AF	84ADB2A0	32ABE746	762FECBC	42F9990B	7CECE4E2	4053E12E	15427ED3
t=43:	35E14BFA	C6E1C5AF	84ADB2A0	32ABE746	C9965792	42F9990B	7CECE4E2	4053E12E
t=44:	7410BFD8	35E14BFA	C6E1C5AF	84ADB2A0	CA54CE51	C9965792	42F9990B	7CECE4E2
t=45:	3FE9E763	7410BFD8	35E14BFA	C6E1C5AF	AE7CDB66	CA54CE51	C9965792	42F9990B
t=46:	853C3A00	3FE9E763	7410BFD8	35E14BFA	C2BE054D	AE7CDB66	CA54CE51	C9965792
t=47:	F7D035E7	853C3A00	3FE9E763	7410BFD8	F6D59D2C	C2BE054D	AE7CDB66	CA54CE51
t=48:	20BAE2B8	F7D035E7	853C3A00	3FE9E763	CAB73F06	F6D59D2C	C2BE054D	AE7CDB66
t=49:	AE6BF667	20BAE2B8	F7D035E7	853C3A00	52384D2F	CAB73F06	F6D59D2C	C2BE054D
t=50:	12E504E5	AE6BF667	20BAE2B8	F7D035E7	F9A8377F	52384D2F	CAB73F06	F6D59D2C
t=51:	F3497054	12E504E5	AE6BF667	20BAE2B8	D0AB7CFC	F9A8377F	52384D2F	CAB73F06
t=52:	9F166CDB	F3497054	12E504E5	AE6BF667	71B3459B	D0AB7CFC	F9A8377F	52384D2F
t=53:	CCD8FA44	9F166CDB	F3497054	12E504E5	0F557DDD	71B3459B	D0AB7CFC	F9A8377F
t=54:	F5E664BD	CCD8FA44	9F166CDB	F3497054	A679A5E9	0F557DDD	71B3459B	D0AB7CFC
t=55:	D4EA8C7E	F5E664BD	CCD8FA44	9F166CDB	2958CE2A	A679A5E9	0F557DDD	71B3459B
t=56:	E8C8FEC7	D4EA8C7E	F5E664BD	CCD8FA44	35F6800E	2958CE2A	A679A5E9	0F557DDD
t=57:	882ED69E	E8C8FEC7	D4EA8C7E	F5E664BD	30267D8E	35F6800E	2958CE2A	A679A5E9

t=58: 4EC725F6 882ED69E E8C8FEC7 D4EA8C7E CE1D1CE4 30267D8E 35F6800E 2958CE2A  
t=59: 5C9CFC69 4EC725F6 882ED69E E8C8FEC7 C8242B92 CE1D1CE4 30267D8E 35F6800E  
t=60: C9A31836 5C9CFC69 4EC725F6 882ED69E 9E40A370 C8242B92 CE1D1CE4 30267D8E  
t=61: F754C16E C9A31836 5C9CFC69 4EC725F6 333E0B63 9E40A370 C8242B92 CE1D1CE4  
t=62: 94314748 F754C16E C9A31836 5C9CFC69 1FBC63B0 333E0B63 9E40A370 C8242B92  
t=63: F2E7A4B9 94314748 F754C16E C9A31836 9FFD8DAC 1FBC63B0 333E0B63 9E40A370

H[0] = 8250E65D + F2E7A4B9 = 75388B16  
H[1] = BCF62F84 + 94314748 = 512776CC  
H[2] = 66659C33 + F754C16E = 5DBA5DA1  
H[3] = 33E5E91A + C9A31836 = FD890150  
H[4] = 10C8B7B0 + 9FFD8DAC = B0C6455C  
H[5] = 95392769 + 1FBC63B0 = B4F58B19  
H[6] = 1F1419C2 + 333E0B63 = 52522525  
H[7] = FD16F295 + 9E40A370 = 9B579605

-----

Message Digest is

75388B16  
512776CC 5DBA5DA1 FD890150 B0C6455C B4F58B19 52522525

#####

Secure Hash Algorithm  
Message Digest Length = 256

#####

One Block Message Sample

Input Message: "abc"

=====

Initial hash value:

- H[0] = 6A09E667
- H[1] = BB67AE85
- H[2] = 3C6EF372
- H[3] = A54FF53A
- H[4] = 510E527F
- H[5] = 9B05688C
- H[6] = 1F83D9AB
- H[7] = 5BE0CD19

=====

Block Contents:

- W[0] = 61626380
- W[1] = 00000000
- W[2] = 00000000
- W[3] = 00000000
- W[4] = 00000000
- W[5] = 00000000
- W[6] = 00000000
- W[7] = 00000000
- W[8] = 00000000
- W[9] = 00000000
- W[10] = 00000000
- W[11] = 00000000
- W[12] = 00000000
- W[13] = 00000000
- W[14] = 00000000
- W[15] = 00000018

	A	B	C	D	E	F	G	H
t= 0:	5D6AEBCD	6A09E667	BB67AE85	3C6EF372	FA2A4622	510E527F	9B05688C	1F83D9AB
t= 1:	5A6AD9AD	5D6AEBCD	6A09E667	BB67AE85	78CE7989	FA2A4622	510E527F	9B05688C
t= 2:	C8C347A7	5A6AD9AD	5D6AEBCD	6A09E667	F92939EB	78CE7989	FA2A4622	510E527F
t= 3:	D550F666	C8C347A7	5A6AD9AD	5D6AEBCD	24E00850	F92939EB	78CE7989	FA2A4622
t= 4:	04409A6A	D550F666	C8C347A7	5A6AD9AD	43ADA245	24E00850	F92939EB	78CE7989
t= 5:	2B4209F5	04409A6A	D550F666	C8C347A7	714260AD	43ADA245	24E00850	F92939EB
t= 6:	E5030380	2B4209F5	04409A6A	D550F666	9B27A401	714260AD	43ADA245	24E00850
t= 7:	85A07B5F	E5030380	2B4209F5	04409A6A	0C657A79	9B27A401	714260AD	43ADA245
t= 8:	8E04ECB9	85A07B5F	E5030380	2B4209F5	32CA2D8C	0C657A79	9B27A401	714260AD
t= 9:	8C87346B	8E04ECB9	85A07B5F	E5030380	1CC92596	32CA2D8C	0C657A79	9B27A401
t=10:	4798A3F4	8C87346B	8E04ECB9	85A07B5F	436B23E8	1CC92596	32CA2D8C	0C657A79
t=11:	F71FC5A9	4798A3F4	8C87346B	8E04ECB9	816FD6E9	436B23E8	1CC92596	32CA2D8C
t=12:	87912990	F71FC5A9	4798A3F4	8C87346B	1E578218	816FD6E9	436B23E8	1CC92596

t=13: D932EB16 87912990 F71FC5A9 4798A3F4 745A48DE 1E578218 816FD6E9 436B23E8  
t=14: C0645FDE D932EB16 87912990 F71FC5A9 0B92F20C 745A48DE 1E578218 816FD6E9  
t=15: B0FA238E C0645FDE D932EB16 87912990 07590DCD 0B92F20C 745A48DE 1E578218  
t=16: 21DA9A9B B0FA238E C0645FDE D932EB16 8034229C 07590DCD 0B92F20C 745A48DE  
t=17: C2FBD9D1 21DA9A9B B0FA238E C0645FDE 846EE454 8034229C 07590DCD 0B92F20C  
t=18: FE777BBF C2FBD9D1 21DA9A9B B0FA238E CC899961 846EE454 8034229C 07590DCD  
t=19: E1F20C33 FE777BBF C2FBD9D1 21DA9A9B B0638179 CC899961 846EE454 8034229C  
t=20: 9DC68B63 E1F20C33 FE777BBF C2FBD9D1 8ADA8930 B0638179 CC899961 846EE454  
t=21: C2606D6D 9DC68B63 E1F20C33 FE777BBF E1257970 8ADA8930 B0638179 CC899961  
t=22: A7A3623F C2606D6D 9DC68B63 E1F20C33 49F5114A E1257970 8ADA8930 B0638179  
t=23: C5D53D8D A7A3623F C2606D6D 9DC68B63 AA47C347 49F5114A E1257970 8ADA8930  
t=24: 1C2C2838 C5D53D8D A7A3623F C2606D6D 2823EF91 AA47C347 49F5114A E1257970  
t=25: CDE8037D 1C2C2838 C5D53D8D A7A3623F 14383D8E 2823EF91 AA47C347 49F5114A  
t=26: B62EC4BC CDE8037D 1C2C2838 C5D53D8D C74C6516 14383D8E 2823EF91 AA47C347  
t=27: 77D37528 B62EC4BC CDE8037D 1C2C2838 EDFFBFF8 C74C6516 14383D8E 2823EF91  
t=28: 363482C9 77D37528 B62EC4BC CDE8037D 6112A3B7 EDFFBFF8 C74C6516 14383D8E  
t=29: A0060B30 363482C9 77D37528 B62EC4BC ADE79437 6112A3B7 EDFFBFF8 C74C6516  
t=30: EA992A22 A0060B30 363482C9 77D37528 0109AB3A ADE79437 6112A3B7 EDFFBFF8  
t=31: 73B33BF5 EA992A22 A0060B30 363482C9 BA591112 0109AB3A ADE79437 6112A3B7  
t=32: 98E12507 73B33BF5 EA992A22 A0060B30 9CD9F5F6 BA591112 0109AB3A ADE79437  
t=33: FE604DF5 98E12507 73B33BF5 EA992A22 59249DD3 9CD9F5F6 BA591112 0109AB3A  
t=34: A9A7738C FE604DF5 98E12507 73B33BF5 085F3833 59249DD3 9CD9F5F6 BA591112  
t=35: 65A0CFE4 A9A7738C FE604DF5 98E12507 F4B002D6 085F3833 59249DD3 9CD9F5F6  
t=36: 41A65CB1 65A0CFE4 A9A7738C FE604DF5 0772A26B F4B002D6 085F3833 59249DD3  
t=37: 34DF1604 41A65CB1 65A0CFE4 A9A7738C A507A53D 0772A26B F4B002D6 085F3833  
t=38: 6DC57A8A 34DF1604 41A65CB1 65A0CFE4 F0781BC8 A507A53D 0772A26B F4B002D6  
t=39: 79EA687A 6DC57A8A 34DF1604 41A65CB1 1EFBC0A0 F0781BC8 A507A53D 0772A26B  
t=40: D6670766 79EA687A 6DC57A8A 34DF1604 26352D63 1EFBC0A0 F0781BC8 A507A53D  
t=41: DF46652F D6670766 79EA687A 6DC57A8A 838B2711 26352D63 1EFBC0A0 F0781BC8  
t=42: 17AA0DFE DF46652F D6670766 79EA687A DECD4715 838B2711 26352D63 1EFBC0A0  
t=43: 9D4BAF93 17AA0DFE DF46652F D6670766 FDA24C2E DECD4715 838B2711 26352D63  
t=44: 26628815 9D4BAF93 17AA0DFE DF46652F A80F11F0 FDA24C2E DECD4715 838B2711  
t=45: 72AB4B91 26628815 9D4BAF93 17AA0DFE B7755DA1 A80F11F0 FDA24C2E DECD4715  
t=46: A14C14B0 72AB4B91 26628815 9D4BAF93 D57B94A9 B7755DA1 A80F11F0 FDA24C2E  
t=47: 4172328D A14C14B0 72AB4B91 26628815 FECF0BC6 D57B94A9 B7755DA1 A80F11F0  
t=48: 05757CEB 4172328D A14C14B0 72AB4B91 BD714038 FECF0BC6 D57B94A9 B7755DA1  
t=49: F11BFAA8 05757CEB 4172328D A14C14B0 6E5C390C BD714038 FECF0BC6 D57B94A9  
t=50: 7A0508A1 F11BFAA8 05757CEB 4172328D 52F1CCF7 6E5C390C BD714038 FECF0BC6  
t=51: 886E7A22 7A0508A1 F11BFAA8 05757CEB 49231C1E 52F1CCF7 6E5C390C BD714038  
t=52: 101FD28F 886E7A22 7A0508A1 F11BFAA8 529E7D00 49231C1E 52F1CCF7 6E5C390C  
t=53: F5702FDB 101FD28F 886E7A22 7A0508A1 9F4787C3 529E7D00 49231C1E 52F1CCF7  
t=54: 3EC45CDB F5702FDB 101FD28F 886E7A22 E50E1B4F 9F4787C3 529E7D00 49231C1E  
t=55: 38CC9913 3EC45CDB F5702FDB 101FD28F 54CB266B E50E1B4F 9F4787C3 529E7D00  
t=56: FCD1887B 38CC9913 3EC45CDB F5702FDB 9B5E906C 54CB266B E50E1B4F 9F4787C3  
t=57: C062D46F FCD1887B 38CC9913 3EC45CDB 7E44008E 9B5E906C 54CB266B E50E1B4F  
t=58: FFB70472 C062D46F FCD1887B 38CC9913 6D83BFC6 7E44008E 9B5E906C 54CB266B  
t=59: B6AE8FFF FFB70472 C062D46F FCD1887B B21BAD3D 6D83BFC6 7E44008E 9B5E906C  
t=60: B85E2CE9 B6AE8FFF FFB70472 C062D46F 961F4894 B21BAD3D 6D83BFC6 7E44008E  
t=61: 04D24D6C B85E2CE9 B6AE8FFF FFB70472 948D25B6 961F4894 B21BAD3D 6D83BFC6  
t=62: D39A2165 04D24D6C B85E2CE9 B6AE8FFF FB121210 948D25B6 961F4894 B21BAD3D  
t=63: 506E3058 D39A2165 04D24D6C B85E2CE9 5EF50F24 FB121210 948D25B6 961F4894

H[0] = 6A09E667 + 506E3058 = BA7816BF  
H[1] = BB67AE85 + D39A2165 = 8F01CFEA  
H[2] = 3C6EF372 + 04D24D6C = 414140DE  
H[3] = A54FF53A + B85E2CE9 = 5DAE2223  
H[4] = 510E527F + 5EF50F24 = B00361A3  
H[5] = 9B05688C + FB121210 = 96177A9C

H[6] = 1F83D9AB + 948D25B6 = B410FF61  
H[7] = 5BE0CD19 + 961F4894 = F20015AD

-----  
Message Digest is

BA7816BF 8F01CFEA  
414140DE 5DAE2223 B00361A3 96177A9C B410FF61 F20015AD

=====  
Two Block Message Sample

Input Message:

"abcdbcdecdefdefgefghfghighijhijkijkljklmklmnlmnomnopnopaq"

=====  
Initial hash value:

H[0] = 6A09E667  
H[1] = BB67AE85  
H[2] = 3C6EF372  
H[3] = A54FF53A  
H[4] = 510E527F  
H[5] = 9B05688C  
H[6] = 1F83D9AB  
H[7] = 5BE0CD19

=====  
Block Contents:

W[0] = 61626364  
W[1] = 62636465  
W[2] = 63646566  
W[3] = 64656667  
W[4] = 65666768  
W[5] = 66676869  
W[6] = 6768696A  
W[7] = 68696A6B  
W[8] = 696A6B6C  
W[9] = 6A6B6C6D  
W[10] = 6B6C6D6E  
W[11] = 6C6D6E6F  
W[12] = 6D6E6F70  
W[13] = 6E6F7071  
W[14] = 80000000  
W[15] = 00000000

	A	B	C	D	E	F	G	H
t= 0:	5D6AEBB1	6A09E667	BB67AE85	3C6EF372	FA2A4606	510E527F	9B05688C	1F83D9AB
t= 1:	2F2D5FCF	5D6AEBB1	6A09E667	BB67AE85	4EB1CFCE	FA2A4606	510E527F	9B05688C
t= 2:	97651825	2F2D5FCF	5D6AEBB1	6A09E667	62D5C49E	4EB1CFCE	FA2A4606	510E527F
t= 3:	4A8D64D5	97651825	2F2D5FCF	5D6AEBB1	6494841B	62D5C49E	4EB1CFCE	FA2A4606
t= 4:	F921C212	4A8D64D5	97651825	2F2D5FCF	05C4F88A	6494841B	62D5C49E	4EB1CFCE
t= 5:	55C8EF48	F921C212	4A8D64D5	97651825	7FF91C94	05C4F88A	6494841B	62D5C49E
t= 6:	485835B7	55C8EF48	F921C212	4A8D64D5	39A5B2CA	7FF91C94	05C4F88A	6494841B

t= 7: D237E6DB 485835B7 55C8EF48 F921C212 A401D211 39A5B2CA 7FF91C94 05C4F88A  
t= 8: 359F2BCE D237E6DB 485835B7 55C8EF48 C09FFEC4 A401D211 39A5B2CA 7FF91C94  
t= 9: 3A474B2B 359F2BCE D237E6DB 485835B7 9037B3B8 C09FFEC4 A401D211 39A5B2CA  
t=10: B8E2B4CB 3A474B2B 359F2BCE D237E6DB 443ED29E 9037B3B8 C09FFEC4 A401D211  
t=11: 1762215C B8E2B4CB 3A474B2B 359F2BCE EE1C97A8 443ED29E 9037B3B8 C09FFEC4  
t=12: 101A4861 1762215C B8E2B4CB 3A474B2B 839A0FC9 EE1C97A8 443ED29E 9037B3B8  
t=13: D68E6457 101A4861 1762215C B8E2B4CB 9243F8AF 839A0FC9 EE1C97A8 443ED29E  
t=14: DD16CBB3 D68E6457 101A4861 1762215C 9162ADED 9243F8AF 839A0FC9 EE1C97A8  
t=15: C3486194 DD16CBB3 D68E6457 101A4861 1496A54F 9162ADED 9243F8AF 839A0FC9  
t=16: B9DCACB1 C3486194 DD16CBB3 D68E6457 D4F64250 1496A54F 9162ADED 9243F8AF  
t=17: 046A193E B9DCACB1 C3486194 DD16CBB3 885370B6 D4F64250 1496A54F 9162ADED  
t=18: F402F058 046A193E B9DCACB1 C3486194 6F433549 885370B6 D4F64250 1496A54F  
t=19: 2139187B F402F058 046A193E B9DCACB1 7C304206 6F433549 885370B6 D4F64250  
t=20: D70AC17D 2139187B F402F058 046A193E 7CC6B262 7C304206 6F433549 885370B6  
t=21: 1B2B66B8 D70AC17D 2139187B F402F058 D560B028 7CC6B262 7C304206 6F433549  
t=22: AE2E2D4F 1B2B66B8 D70AC17D 2139187B F074FC95 D560B028 7CC6B262 7C304206  
t=23: 59FCE6B9 AE2E2D4F 1B2B66B8 D70AC17D A2C7D51D F074FC95 D560B028 7CC6B262  
t=24: 4A885065 59FCE6B9 AE2E2D4F 1B2B66B8 763597FB A2C7D51D F074FC95 D560B028  
t=25: 573221DA 4A885065 59FCE6B9 AE2E2D4F 36E74EB4 763597FB A2C7D51D F074FC95  
t=26: 128661DA 573221DA 4A885065 59FCE6B9 1162D575 36E74EB4 763597FB A2C7D51D  
t=27: 73F858AF 128661DA 573221DA 4A885065 E77C797F 1162D575 36E74EB4 763597FB  
t=28: 74BCF468 73F858AF 128661DA 573221DA 72ABAEC D E77C797F 1162D575 36E74EB4  
t=29: DF7151A0 74BCF468 73F858AF 128661DA 7629C961 72ABAEC D E77C797F 1162D575  
t=30: EB43F3ED DF7151A0 74BCF468 73F858AF 0635D880 7629C961 72ABAEC D E77C797F  
t=31: 5581AB07 EB43F3ED DF7151A0 74BCF468 DF980085 0635D880 7629C961 72ABAEC D  
t=32: 9FC905C8 5581AB07 EB43F3ED DF7151A0 A94D2AF1 DF980085 0635D880 7629C961  
t=33: 9CE5A62F 9FC905C8 5581AB07 EB43F3ED 6EF3B6BD A94D2AF1 DF980085 0635D880  
t=34: 1DF8E885 9CE5A62F 9FC905C8 5581AB07 2A9E048E 6EF3B6BD A94D2AF1 DF980085  
t=35: 0786DCE8 1DF8E885 9CE5A62F 9FC905C8 DE2A21D1 2A9E048E 6EF3B6BD A94D2AF1  
t=36: 2C55D3A6 0786DCE8 1DF8E885 9CE5A62F B067C1AF DE2A21D1 2A9E048E 6EF3B6BD  
t=37: A985B4BE 2C55D3A6 0786DCE8 1DF8E885 F72BF353 B067C1AF DE2A21D1 2A9E048E  
t=38: 91AC9D5D A985B4BE 2C55D3A6 0786DCE8 68D8D590 F72BF353 B067C1AF DE2A21D1  
t=39: 7E4D30B8 91AC9D5D A985B4BE 2C55D3A6 9F5B9B6D 68D8D590 F72BF353 B067C1AF  
t=40: 7E056794 7E4D30B8 91AC9D5D A985B4BE 423B26C0 9F5B9B6D 68D8D590 F72BF353  
t=41: 508A16AB 7E056794 7E4D30B8 91AC9D5D 45459D97 423B26C0 9F5B9B6D 68D8D590  
t=42: B62C7013 508A16AB 7E056794 7E4D30B8 80A92A00 45459D97 423B26C0 9F5B9B6D  
t=43: 167361DE B62C7013 508A16AB 7E056794 41DD3844 80A92A00 45459D97 423B26C0  
t=44: DE71E2F2 167361DE B62C7013 508A16AB FF61C636 41DD3844 80A92A00 45459D97  
t=45: 18F0D19D DE71E2F2 167361DE B62C7013 6B88472C FF61C636 41DD3844 80A92A00  
t=46: 165BE9CD 18F0D19D DE71E2F2 167361DE A483F080 6B88472C FF61C636 41DD3844  
t=47: 13D82741 165BE9CD 18F0D19D DE71E2F2 A7802A4D A483F080 6B88472C FF61C636  
t=48: 017B9D99 13D82741 165BE9CD 18F0D19D AEB10B60 A7802A4D A483F080 6B88472C  
t=49: 543C99A1 017B9D99 13D82741 165BE9CD 16F134B6 AEB10B60 A7802A4D A483F080  
t=50: 758CA97A 543C99A1 017B9D99 13D82741 100CF2EA 16F134B6 AEB10B60 A7802A4D  
t=51: 81C1CDE0 758CA97A 543C99A1 017B9D99 5C47EB7B 100CF2EA 16F134B6 AEB10B60  
t=52: B8D55619 81C1CDE0 758CA97A 543C99A1 1C806A61 5C47EB7B 100CF2EA 16F134B6  
t=53: 1D6DE87A B8D55619 81C1CDE0 758CA97A 3443BED4 1C806A61 5C47EB7B 100CF2EA  
t=54: F907B313 1D6DE87A B8D55619 81C1CDE0 61A41711 3443BED4 1C806A61 5C47EB7B  
t=55: 9E57C4A0 F907B313 1D6DE87A B8D55619 EEC13548 61A41711 3443BED4 1C806A61  
t=56: 71629856 9E57C4A0 F907B313 1D6DE87A 2F6C8C4E EEC13548 61A41711 3443BED4  
t=57: 7C015A2C 71629856 9E57C4A0 F907B313 CB9D3DD0 2F6C8C4E EEC13548 61A41711  
t=58: 921FCCB6 7C015A2C 71629856 9E57C4A0 43D8A034 CB9D3DD0 2F6C8C4E EEC13548  
t=59: E18F259A 921FCCB6 7C015A2C 71629856 51E15869 43D8A034 CB9D3DD0 2F6C8C4E  
t=60: BCFCE922 E18F259A 921FCCB6 7C015A2C 962D8621 51E15869 43D8A034 CB9D3DD0  
t=61: F6F443F8 BCFCE922 E18F259A 921FCCB6 ACC75916 962D8621 51E15869 43D8A034  
t=62: 86126910 F6F443F8 BCFCE922 E18F259A 2FC08F85 ACC75916 962D8621 51E15869  
t=63: 1BDC6F6F 86126910 F6F443F8 BCFCE922 25D2430A 2FC08F85 ACC75916 962D8621

H[0] = 6A09E667 + 1BDC6F6F = 85E655D6  
 H[1] = BB67AE85 + 86126910 = 417A1795  
 H[2] = 3C6EF372 + F6F443F8 = 3363376A  
 H[3] = A54FF53A + BCFCE922 = 624CDE5C  
 H[4] = 510E527F + 25D2430A = 76E09589  
 H[5] = 9B05688C + 2FC08F85 = CAC5F811  
 H[6] = 1F83D9AB + ACC75916 = CC4B32C1  
 H[7] = 5BE0CD19 + 962D8621 = F20E533A

=====

Block Contents:

W[0] = 00000000  
 W[1] = 00000000  
 W[2] = 00000000  
 W[3] = 00000000  
 W[4] = 00000000  
 W[5] = 00000000  
 W[6] = 00000000  
 W[7] = 00000000  
 W[8] = 00000000  
 W[9] = 00000000  
 W[10] = 00000000  
 W[11] = 00000000  
 W[12] = 00000000  
 W[13] = 00000000  
 W[14] = 00000000  
 W[15] = 000001C0

	A	B	C	D	E	F	G	H
t= 0:	7C20C838	85E655D6	417A1795	3363376A	4670AE6E	76E09589	CAC5F811	CC4B32C1
t= 1:	7C3C0F86	7C20C838	85E655D6	417A1795	8C51BE64	4670AE6E	76E09589	CAC5F811
t= 2:	FD1EEBDC	7C3C0F86	7C20C838	85E655D6	AF71B9EA	8C51BE64	4670AE6E	76E09589
t= 3:	F268FAA9	FD1EEBDC	7C3C0F86	7C20C838	E20362EF	AF71B9EA	8C51BE64	4670AE6E
t= 4:	185A5D79	F268FAA9	FD1EEBDC	7C3C0F86	8DFF3001	E20362EF	AF71B9EA	8C51BE64
t= 5:	3EEB6C06	185A5D79	F268FAA9	FD1EEBDC	FE20CDA6	8DFF3001	E20362EF	AF71B9EA
t= 6:	89BBA3F1	3EEB6C06	185A5D79	F268FAA9	0A34DF03	FE20CDA6	8DFF3001	E20362EF
t= 7:	BF9A93A0	89BBA3F1	3EEB6C06	185A5D79	059ABDD1	0A34DF03	FE20CDA6	8DFF3001
t= 8:	2C096744	BF9A93A0	89BBA3F1	3EEB6C06	ABFA465B	059ABDD1	0A34DF03	FE20CDA6
t= 9:	2D964E86	2C096744	BF9A93A0	89BBA3F1	AA27ED82	ABFA465B	059ABDD1	0A34DF03
t=10:	5B35025B	2D964E86	2C096744	BF9A93A0	10E77723	AA27ED82	ABFA465B	059ABDD1
t=11:	5EB4EC40	5B35025B	2D964E86	2C096744	E11B4548	10E77723	AA27ED82	ABFA465B
t=12:	35EE996D	5EB4EC40	5B35025B	2D964E86	5C24E2A2	E11B4548	10E77723	AA27ED82
t=13:	D74080FA	35EE996D	5EB4EC40	5B35025B	68AA893F	5C24E2A2	E11B4548	10E77723
t=14:	0CEA5CBC	D74080FA	35EE996D	5EB4EC40	60356548	68AA893F	5C24E2A2	E11B4548
t=15:	16A8CC79	0CEA5CBC	D74080FA	35EE996D	0FCB1F6F	60356548	68AA893F	5C24E2A2
t=16:	F16F634E	16A8CC79	0CEA5CBC	D74080FA	8B21CDC1	0FCB1F6F	60356548	68AA893F
t=17:	23DCB6C2	F16F634E	16A8CC79	0CEA5CBC	CA9182D3	8B21CDC1	0FCB1F6F	60356548
t=18:	DCFF40FD	23DCB6C2	F16F634E	16A8CC79	69BF7B95	CA9182D3	8B21CDC1	0FCB1F6F
t=19:	76F1A2BC	DCFF40FD	23DCB6C2	F16F634E	0DC84BB1	69BF7B95	CA9182D3	8B21CDC1
t=20:	20AAD899	76F1A2BC	DCFF40FD	23DCB6C2	CC4769F2	0DC84BB1	69BF7B95	CA9182D3
t=21:	D44DC81A	20AAD899	76F1A2BC	DCFF40FD	5BACE62D	CC4769F2	0DC84BB1	69BF7B95
t=22:	F13AE55B	D44DC81A	20AAD899	76F1A2BC	966AA287	5BACE62D	CC4769F2	0DC84BB1
t=23:	A4195B91	F13AE55B	D44DC81A	20AAD899	EDDBD6ED	966AA287	5BACE62D	CC4769F2
t=24:	4984FA79	A4195B91	F13AE55B	D44DC81A	A530D939	EDDBD6ED	966AA287	5BACE62D
t=25:	AA6CB982	4984FA79	A4195B91	F13AE55B	0B5EEE44	A530D939	EDDBD6ED	966AA287
t=26:	9450FBBC	AA6CB982	4984FA79	A4195B91	09166DDA	0B5EEE44	A530D939	EDDBD6ED
t=27:	0D936BAB	9450FBBC	AA6CB982	4984FA79	6E495D4B	09166DDA	0B5EEE44	A530D939

t=28: D958B529 0D936BAB 9450FBBC AA6CB982 C2FA99B1 6E495D4B 09166DDA 0B5EEEE4  
t=29: 1CFA5EB0 D958B529 0D936BAB 9450FBBC 6C49DB9F C2FA99B1 6E495D4B 09166DDA  
t=30: 02EF3A5F 1CFA5EB0 D958B529 0D936BAB 5DA10665 6C49DB9F C2FA99B1 6E495D4B  
t=31: B0EAB1C5 02EF3A5F 1CFA5EB0 D958B529 F6D93952 5DA10665 6C49DB9F C2FA99B1  
t=32: 0BFBA73C B0EAB1C5 02EF3A5F 1CFA5EB0 8B99E3A9 F6D93952 5DA10665 6C49DB9F  
t=33: 4BD1DF96 0BFBA73C B0EAB1C5 02EF3A5F 905E44AC 8B99E3A9 F6D93952 5DA10665  
t=34: 9907F1B6 4BD1DF96 0BFBA73C B0EAB1C5 66C3043D 905E44AC 8B99E3A9 F6D93952  
t=35: ECDE4E0D 9907F1B6 4BD1DF96 0BFBA73C 5DC119E6 66C3043D 905E44AC 8B99E3A9  
t=36: 2F11C939 ECDE4E0D 9907F1B6 4BD1DF96 FED4CE1D 5DC119E6 66C3043D 905E44AC  
t=37: D949682B 2F11C939 ECDE4E0D 9907F1B6 32D99008 FED4CE1D 5DC119E6 66C3043D  
t=38: ADCA7A96 D949682B 2F11C939 ECDE4E0D C6CCE4FF 32D99008 FED4CE1D 5DC119E6  
t=39: 221B8A5A ADCA7A96 D949682B 2F11C939 0B82C5EB C6CCE4FF 32D99008 FED4CE1D  
t=40: 12D97845 221B8A5A ADCA7A96 D949682B E4213CA2 0B82C5EB C6CCE4FF 32D99008  
t=41: 2C794876 12D97845 221B8A5A ADCA7A96 FF6759BA E4213CA2 0B82C5EB C6CCE4FF  
t=42: 8300FCA2 2C794876 12D97845 221B8A5A E0E3457C FF6759BA E4213CA2 0B82C5EB  
t=43: F2AD6322 8300FCA2 2C794876 12D97845 CC48C7F3 E0E3457C FF6759BA E4213CA2  
t=44: 0F154E11 F2AD6322 8300FCA2 2C794876 6F9517CB CC48C7F3 E0E3457C FF6759BA  
t=45: 104A7DB4 0F154E11 F2AD6322 8300FCA2 5348E8F6 6F9517CB CC48C7F3 E0E3457C  
t=46: 0B3303A7 104A7DB4 0F154E11 F2AD6322 BBE1C39A 5348E8F6 6F9517CB CC48C7F3  
t=47: D7354D5B 0B3303A7 104A7DB4 0F154E11 AAD55B6B BBE1C39A 5348E8F6 6F9517CB  
t=48: B736D7A6 D7354D5B 0B3303A7 104A7DB4 68F25260 AAD55B6B BBE1C39A 5348E8F6  
t=49: 2748E5EC B736D7A6 D7354D5B 0B3303A7 D4B58576 68F25260 AAD55B6B BBE1C39A  
t=50: D8AABCF9 2748E5EC B736D7A6 D7354D5B 27844711 D4B58576 68F25260 AAD55B6B  
t=51: 1A6BCF6A D8AABCF9 2748E5EC B736D7A6 FF5E99D0 27844711 D4B58576 68F25260  
t=52: 4ECA6FA0 1A6BCF6A D8AABCF9 2748E5EC 989ED071 FF5E99D0 27844711 D4B58576  
t=53: EC02560A 4ECA6FA0 1A6BCF6A D8AABCF9 7151DF8E 989ED071 FF5E99D0 27844711  
t=54: D9F0C115 EC02560A 4ECA6FA0 1A6BCF6A 624150C4 7151DF8E 989ED071 FF5E99D0  
t=55: 92952710 D9F0C115 EC02560A 4ECA6FA0 226806D6 624150C4 7151DF8E 989ED071  
t=56: 20D4D0E4 92952710 D9F0C115 EC02560A 4E515A4D 226806D6 624150C4 7151DF8E  
t=57: 4348EB1F 20D4D0E4 92952710 D9F0C115 C21EDDF9 4E515A4D 226806D6 624150C4  
t=58: 286FE5F0 4348EB1F 20D4D0E4 92952710 54076664 C21EDDF9 4E515A4D 226806D6  
t=59: 1C4CDD09 286FE5F0 4348EB1F 20D4D0E4 F487A853 54076664 C21EDDF9 4E515A4D  
t=60: A9F181DD 1C4CDD09 286FE5F0 4348EB1F 27CCB387 F487A853 54076664 C21EDDF9  
t=61: B25CEF29 A9F181DD 1C4CDD09 286FE5F0 2AA1BB13 27CCB387 F487A853 54076664  
t=62: 908C2123 B25CEF29 A9F181DD 1C4CDD09 9A392956 2AA1BB13 27CCB387 F487A853  
t=63: 9EA7148B 908C2123 B25CEF29 A9F181DD 2C5C4ED0 9A392956 2AA1BB13 27CCB387

H[0] = 85E655D6 + 9EA7148B = 248D6A61  
H[1] = 417A1795 + 908C2123 = D20638B8  
H[2] = 3363376A + B25CEF29 = E5C02693  
H[3] = 624CDE5C + A9F181DD = 0C3E6039  
H[4] = 76E09589 + 2C5C4ED0 = A33CE459  
H[5] = CAC5F811 + 9A392956 = 64FF2167  
H[6] = CC4B32C1 + 2AA1BB13 = F6ECEDD4  
H[7] = F20E533A + 27CCB387 = 19DB06C1

-----  
Message Digest is

248D6A61 D20638B8  
E5C02693 0C3E6039 A33CE459 64FF2167 F6ECEDD4 19DB06C1

#####

Secure Hash Algorithm  
Message Digest Length = 384

#####

One Block Message Sample

Input Message: "abc"

=====

Initial hash value:

- H[0] = CBBB9D5DC1059ED8
- H[1] = 629A292A367CD507
- H[2] = 9159015A3070DD17
- H[3] = 152FECD8F70E5939
- H[4] = 67332667FFC00B31
- H[5] = 8EB44A8768581511
- H[6] = DB0C2E0D64F98FA7
- H[7] = 47B5481DBEFA4FA4

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Block Contents:

- W[0] = 6162638000000000
- W[1] = 0000000000000000
- W[2] = 0000000000000000
- W[3] = 0000000000000000
- W[4] = 0000000000000000
- W[5] = 0000000000000000
- W[6] = 0000000000000000
- W[7] = 0000000000000000
- W[8] = 0000000000000000
- W[9] = 0000000000000000
- W[10] = 0000000000000000
- W[11] = 0000000000000000
- W[12] = 0000000000000000
- W[13] = 0000000000000000
- W[14] = 0000000000000000
- W[15] = 0000000000000018

	A/E	B/F	C/G	D/H
t= 0:	470994AD30873F88 BD03F724BE6075F9	CBBB9D5DC1059ED8 67332667FFC00B31	629A292A367CD507 8EB44A8768581511	9159015A3070DD17 DB0C2E0D64F98FA7
t= 1:	2E91230306A12AE0 5E1B4E1695372B9E	470994AD30873F88 BD03F724BE6075F9	CBBB9D5DC1059ED8 67332667FFC00B31	629A292A367CD507 8EB44A8768581511
t= 2:	EEBE5D379BE707AD 54074A65AEF34336	2E91230306A12AE0 5E1B4E1695372B9E	470994AD30873F88 BD03F724BE6075F9	CBBB9D5DC1059ED8 67332667FFC00B31
t= 3:	E308483153E15AD6 086C5B2D36A89178	EEBE5D379BE707AD 54074A65AEF34336	2E91230306A12AE0 5E1B4E1695372B9E	470994AD30873F88 BD03F724BE6075F9
t= 4:	3A7A023C593D8479 8AA1144850633794	E308483153E15AD6 086C5B2D36A89178	EEBE5D379BE707AD 54074A65AEF34336	2E91230306A12AE0 5E1B4E1695372B9E
t= 5:	333199A85F92B052 7A6316F0EF047CE7	3A7A023C593D8479 8AA1144850633794	E308483153E15AD6 086C5B2D36A89178	EEBE5D379BE707AD 54074A65AEF34336
t= 6:	76F0741213DD2EF6	333199A85F92B052	3A7A023C593D8479	E308483153E15AD6

	74063CBA385F0675	7A6316F0EF047CE7	8AA1144850633794	086C5B2D36A89178
t= 7:	02F2A04D3AAB1629	76F0741213DD2EF6	333199A85F92B052	3A7A023C593D8479
	1688B9BF14980FC0	74063CBA385F0675	7A6316F0EF047CE7	8AA1144850633794
t= 8:	73E5B2A1704A0349	02F2A04D3AAB1629	76F0741213DD2EF6	333199A85F92B052
	FD00139F705907D0	1688B9BF14980FC0	74063CBA385F0675	7A6316F0EF047CE7
t= 9:	BF3F67BA12882648	73E5B2A1704A0349	02F2A04D3AAB1629	76F0741213DD2EF6
	652E311D4F0A4257	FD00139F705907D0	1688B9BF14980FC0	74063CBA385F0675
t=10:	33254508BB2EA48D	BF3F67BA12882648	73E5B2A1704A0349	02F2A04D3AAB1629
	9E18991C4F39F0BA	652E311D4F0A4257	FD00139F705907D0	1688B9BF14980FC0
t=11:	C1FDB2A0205EA0E5	33254508BB2EA48D	BF3F67BA12882648	73E5B2A1704A0349
	04732E8BC4044582	9E18991C4F39F0BA	652E311D4F0A4257	FD00139F705907D0
t=12:	185F9FF038A50F39	C1FDB2A0205EA0E5	33254508BB2EA48D	BF3F67BA12882648
	8B4ACFC4D2B8AFE6	04732E8BC4044582	9E18991C4F39F0BA	652E311D4F0A4257
t=13:	E5F06744C0D7563A	185F9FF038A50F39	C1FDB2A0205EA0E5	33254508BB2EA48D
	2FA93D1CE9523015	8B4ACFC4D2B8AFE6	04732E8BC4044582	9E18991C4F39F0BA
t=14:	7E32DC0E9F414783	E5F06744C0D7563A	185F9FF038A50F39	C1FDB2A0205EA0E5
	3A9950AAA5E75884	2FA93D1CE9523015	8B4ACFC4D2B8AFE6	04732E8BC4044582
t=15:	1EAB6159AE87EF6D	7E32DC0E9F414783	E5F06744C0D7563A	185F9FF038A50F39
	153B895CFBC436C5	3A9950AAA5E75884	2FA93D1CE9523015	8B4ACFC4D2B8AFE6
t=16:	33EF2CEBBF1739AA	1EAB6159AE87EF6D	7E32DC0E9F414783	E5F06744C0D7563A
	9D1A64BAF1D366AA	153B895CFBC436C5	3A9950AAA5E75884	2FA93D1CE9523015
t=17:	7DF1B65F1B87D6CA	33EF2CEBBF1739AA	1EAB6159AE87EF6D	7E32DC0E9F414783
	5B6E369D36E8E181	9D1A64BAF1D366AA	153B895CFBC436C5	3A9950AAA5E75884
t=18:	63A24014A34BB0F6	7DF1B65F1B87D6CA	33EF2CEBBF1739AA	1EAB6159AE87EF6D
	E13E610EAE680D85	5B6E369D36E8E181	9D1A64BAF1D366AA	153B895CFBC436C5
t=19:	F1AABD313309509B	63A24014A34BB0F6	7DF1B65F1B87D6CA	33EF2CEBBF1739AA
	674385F0D87DB94F	E13E610EAE680D85	5B6E369D36E8E181	9D1A64BAF1D366AA
t=20:	9BA737AE88A72C64	F1AABD313309509B	63A24014A34BB0F6	7DF1B65F1B87D6CA
	3FC2614C43906C0F	674385F0D87DB94F	E13E610EAE680D85	5B6E369D36E8E181
t=21:	042C2DC9A5BF558A	9BA737AE88A72C64	F1AABD313309509B	63A24014A34BB0F6
	19316BEB88E01F2	3FC2614C43906C0F	674385F0D87DB94F	E13E610EAE680D85
t=22:	7799C75ACC748C0F	042C2DC9A5BF558A	9BA737AE88A72C64	F1AABD313309509B
	A7BBD65BF64F58C8	19316BEB88E01F2	3FC2614C43906C0F	674385F0D87DB94F
t=23:	CCF99A80F92BF002	7799C75ACC748C0F	042C2DC9A5BF558A	9BA737AE88A72C64
	E52A24FAE4E8FC9B	A7BBD65BF64F58C8	19316BEB88E01F2	3FC2614C43906C0F
t=24:	AE993474363EFE68	CCF99A80F92BF002	7799C75ACC748C0F	042C2DC9A5BF558A
	587F308D58681928	E52A24FAE4E8FC9B	A7BBD65BF64F58C8	19316BEB88E01F2
t=25:	335063D1A2AEC92F	AE993474363EFE68	CCF99A80F92BF002	7799C75ACC748C0F
	C2D6D65E38C6EA79	587F308D58681928	E52A24FAE4E8FC9B	A7BBD65BF64F58C8
t=26:	53A78B0CCA01BA37	335063D1A2AEC92F	AE993474363EFE68	CCF99A80F92BF002
	3B65A26C3C92C8F3	C2D6D65E38C6EA79	587F308D58681928	E52A24FAE4E8FC9B
t=27:	AB7FFA529F622930	53A78B0CCA01BA37	335063D1A2AEC92F	AE993474363EFE68
	B9D8A2F2762901EA	3B65A26C3C92C8F3	C2D6D65E38C6EA79	587F308D58681928
t=28:	E428BB43AFE3D63E	AB7FFA529F622930	53A78B0CCA01BA37	335063D1A2AEC92F
	6A8527525F898726	B9D8A2F2762901EA	3B65A26C3C92C8F3	C2D6D65E38C6EA79
t=29:	BBED541A5128088C	E428BB43AFE3D63E	AB7FFA529F622930	53A78B0CCA01BA37
	7973AADBDE294BE9	6A8527525F898726	B9D8A2F2762901EA	3B65A26C3C92C8F3
t=30:	4C5C38DF7EC8BAF4	BBED541A5128088C	E428BB43AFE3D63E	AB7FFA529F622930
	422CEEA0200E9EE4	7973AADBDE294BE9	6A8527525F898726	B9D8A2F2762901EA
t=31:	4BA456EC244033ED	4C5C38DF7EC8BAF4	BBED541A5128088C	E428BB43AFE3D63E
	7CF40857056D86B0	422CEEA0200E9EE4	7973AADBDE294BE9	6A8527525F898726
t=32:	AA4A6AB2AC5F5DD8	4BA456EC244033ED	4C5C38DF7EC8BAF4	BBED541A5128088C
	AD2B1ECFB5BFC556	7CF40857056D86B0	422CEEA0200E9EE4	7973AADBDE294BE9
t=33:	9CB941F2CED774B3	AA4A6AB2AC5F5DD8	4BA456EC244033ED	4C5C38DF7EC8BAF4
	029F66C7B4569BF0	AD2B1ECFB5BFC556	7CF40857056D86B0	422CEEA0200E9EE4
t=34:	39265F358594DE27	9CB941F2CED774B3	AA4A6AB2AC5F5DD8	4BA456EC244033ED
	3F7B1C260C82E54F	029F66C7B4569BF0	AD2B1ECFB5BFC556	7CF40857056D86B0
t=35:	09CCA487D39B02A1	39265F358594DE27	9CB941F2CED774B3	AA4A6AB2AC5F5DD8

	4A22B37B58A5B1B0	3F7B1C260C82E54F	029F66C7B4569BF0	AD2B1ECFB5BFC556
t=36:	D48D97CE438CF4F0	09CCA487D39B02A1	39265F358594DE27	9CB941F2CED774B3
	A239E00B8BAA0410	4A22B37B58A5B1B0	3F7B1C260C82E54F	029F66C7B4569BF0
t=37:	D6F41E25A8B634D6	D48D97CE438CF4F0	09CCA487D39B02A1	39265F358594DE27
	25755CB8179DD0B0	A239E00B8BAA0410	4A22B37B58A5B1B0	3F7B1C260C82E54F
t=38:	54078334358573B4	D6F41E25A8B634D6	D48D97CE438CF4F0	09CCA487D39B02A1
	0E419FB0802B0EFC	25755CB8179DD0B0	A239E00B8BAA0410	4A22B37B58A5B1B0
t=39:	DB24F9A03F4FFF6B	54078334358573B4	D6F41E25A8B634D6	D48D97CE438CF4F0
	D30E99B4B394B090	0E419FB0802B0EFC	25755CB8179DD0B0	A239E00B8BAA0410
t=40:	3604C53A845EFC37	DB24F9A03F4FFF6B	54078334358573B4	D6F41E25A8B634D6
	791B2B4AF7338B99	D30E99B4B394B090	0E419FB0802B0EFC	25755CB8179DD0B0
t=41:	F41B1C0EEE89BDC6	3604C53A845EFC37	DB24F9A03F4FFF6B	54078334358573B4
	E319B77D9E4E87F9	791B2B4AF7338B99	D30E99B4B394B090	0E419FB0802B0EFC
t=42:	36644AE374632E3A	F41B1C0EEE89BDC6	3604C53A845EFC37	DB24F9A03F4FFF6B
	458250878A3972B2	E319B77D9E4E87F9	791B2B4AF7338B99	D30E99B4B394B090
t=43:	88806F6AE9FCD65B	36644AE374632E3A	F41B1C0EEE89BDC6	3604C53A845EFC37
	CFDE2E6EA54FA576	458250878A3972B2	E319B77D9E4E87F9	791B2B4AF7338B99
t=44:	51DCAA36995C301D	88806F6AE9FCD65B	36644AE374632E3A	F41B1C0EEE89BDC6
	E37F778353998050	CFDE2E6EA54FA576	458250878A3972B2	E319B77D9E4E87F9
t=45:	EF5E3885A2F238DF	51DCAA36995C301D	88806F6AE9FCD65B	36644AE374632E3A
	740E347F24E18FDA	E37F778353998050	CFDE2E6EA54FA576	458250878A3972B2
t=46:	EB3753F4283F4818	EF5E3885A2F238DF	51DCAA36995C301D	88806F6AE9FCD65B
	0AE48CF840BB8BE9	740E347F24E18FDA	E37F778353998050	CFDE2E6EA54FA576
t=47:	A6998D63A5D09E04	EB3753F4283F4818	EF5E3885A2F238DF	51DCAA36995C301D
	E21095012EE0B72A	0AE48CF840BB8BE9	740E347F24E18FDA	E37F778353998050
t=48:	D3698FB64DF175B0	A6998D63A5D09E04	EB3753F4283F4818	EF5E3885A2F238DF
	C2F0B90FFCE80739	E21095012EE0B72A	0AE48CF840BB8BE9	740E347F24E18FDA
t=49:	317A3B295B991914	D3698FB64DF175B0	A6998D63A5D09E04	EB3753F4283F4818
	1CADFF2E6CB5AA4D	C2F0B90FFCE80739	E21095012EE0B72A	0AE48CF840BB8BE9
t=50:	0941DA08148BA463	317A3B295B991914	D3698FB64DF175B0	A6998D63A5D09E04
	833EB9A4BB5A073E	1CADFF2E6CB5AA4D	C2F0B90FFCE80739	E21095012EE0B72A
t=51:	494AC238D68C3D0B	0941DA08148BA463	317A3B295B991914	D3698FB64DF175B0
	80C8FC138E645028	833EB9A4BB5A073E	1CADFF2E6CB5AA4D	C2F0B90FFCE80739
t=52:	C87E9168DB9E97DE	494AC238D68C3D0B	0941DA08148BA463	317A3B295B991914
	65CF7F6A829ACA04	80C8FC138E645028	833EB9A4BB5A073E	1CADFF2E6CB5AA4D
t=53:	EDB4448879391DBB	C87E9168DB9E97DE	494AC238D68C3D0B	0941DA08148BA463
	7729C85475DD318F	65CF7F6A829ACA04	80C8FC138E645028	833EB9A4BB5A073E
t=54:	073775C2456DC7DB	EDB4448879391DBB	C87E9168DB9E97DE	494AC238D68C3D0B
	A9CCA0B6266B1D77	7729C85475DD318F	65CF7F6A829ACA04	80C8FC138E645028
t=55:	54DE8857B24AFAF7	073775C2456DC7DB	EDB4448879391DBB	C87E9168DB9E97DE
	8DE51CFF2AE4B068	A9CCA0B6266B1D77	7729C85475DD318F	65CF7F6A829ACA04
t=56:	8A9CDD80F7F09C05	54DE8857B24AFAF7	073775C2456DC7DB	EDB4448879391DBB
	A60BA5E9EBAEB96A	8DE51CFF2AE4B068	A9CCA0B6266B1D77	7729C85475DD318F
t=57:	3EEB22A7524D8D7F	8A9CDD80F7F09C05	54DE8857B24AFAF7	073775C2456DC7DB
	E2E6830B139DF58F	A60BA5E9EBAEB96A	8DE51CFF2AE4B068	A9CCA0B6266B1D77
t=58:	0ED77C9CDE8883D3	3EEB22A7524D8D7F	8A9CDD80F7F09C05	54DE8857B24AFAF7
	38413A2052387A9E	E2E6830B139DF58F	A60BA5E9EBAEB96A	8DE51CFF2AE4B068
t=59:	E64E4135F9D30DBC	0ED77C9CDE8883D3	3EEB22A7524D8D7F	8A9CDD80F7F09C05
	45B640454C75C349	38413A2052387A9E	E2E6830B139DF58F	A60BA5E9EBAEB96A
t=60:	1CA93A293D544328	E64E4135F9D30DBC	0ED77C9CDE8883D3	3EEB22A7524D8D7F
	EFBEF83A35C0319E	45B640454C75C349	38413A2052387A9E	E2E6830B139DF58F
t=61:	3DC764F89E54043A	1CA93A293D544328	E64E4135F9D30DBC	0ED77C9CDE8883D3
	A57784945550CF94	EFBEF83A35C0319E	45B640454C75C349	38413A2052387A9E
t=62:	56FB5883F1C87A05	3DC764F89E54043A	1CA93A293D544328	E64E4135F9D30DBC
	F5198A41EB80E022	A57784945550CF94	EFBEF83A35C0319E	45B640454C75C349
t=63:	24A1124262A331C7	56FB5883F1C87A05	3DC764F89E54043A	1CA93A293D544328
	06EDACAE67B54AD	F5198A41EB80E022	A57784945550CF94	EFBEF83A35C0319E
t=64:	EB85D19201C89694	24A1124262A331C7	56FB5883F1C87A05	3DC764F89E54043A

	9CED24983EEC8723	06EDACAE6E7B54AD	F5198A41EB80E022	A57784945550CF94
t=65:	CC981AB3A59C1DB4	EB85D19201C89694	24A1124262A331C7	56FB5883F1C87A05
	EAC5516336BC8882	9CED24983EEC8723	06EDACAE6E7B54AD	F5198A41EB80E022
t=66:	CEEF5D997E148B44	CC981AB3A59C1DB4	EB85D19201C89694	24A1124262A331C7
	617BBF70BB165212	EAC5516336BC8882	9CED24983EEC8723	06EDACAE6E7B54AD
t=67:	689EDF608A8E3F14	CEEF5D997E148B44	CC981AB3A59C1DB4	EB85D19201C89694
	3280D88472C100FD	617BBF70BB165212	EAC5516336BC8882	9CED24983EEC8723
t=68:	1E6E0255AB88079F	689EDF608A8E3F14	CEEF5D997E148B44	CC981AB3A59C1DB4
	F2001138439902B1	3280D88472C100FD	617BBF70BB165212	EAC5516336BC8882
t=69:	8C5D3B7FDAD66E70	1E6E0255AB88079F	689EDF608A8E3F14	CEEF5D997E148B44
	90D18EC8B69F0345	F2001138439902B1	3280D88472C100FD	617BBF70BB165212
t=70:	32E5ED8655871E9B	8C5D3B7FDAD66E70	1E6E0255AB88079F	689EDF608A8E3F14
	51105F6241313777	90D18EC8B69F0345	F2001138439902B1	3280D88472C100FD
t=71:	BCD5061679BE7336	32E5ED8655871E9B	8C5D3B7FDAD66E70	1E6E0255AB88079F
	454B99F654443AD0	51105F6241313777	90D18EC8B69F0345	F2001138439902B1
t=72:	E7D913B6678E78EF	BCD5061679BE7336	32E5ED8655871E9B	8C5D3B7FDAD66E70
	1FF613B5AA63776E	454B99F654443AD0	51105F6241313777	90D18EC8B69F0345
t=73:	E6B8CB8DFA3475AB	E7D913B6678E78EF	BCD5061679BE7336	32E5ED8655871E9B
	2E75F34303D39BB0	1FF613B5AA63776E	454B99F654443AD0	51105F6241313777
t=74:	FDD4A30E168C4AE5	E6B8CB8DFA3475AB	E7D913B6678E78EF	BCD5061679BE7336
	83A35DBE2A64FC26	2E75F34303D39BB0	1FF613B5AA63776E	454B99F654443AD0
t=75:	12AEB6268DFA3E14	FDD4A30E168C4AE5	E6B8CB8DFA3475AB	E7D913B6678E78EF
	F660943B276786F7	83A35DBE2A64FC26	2E75F34303D39BB0	1FF613B5AA63776E
t=76:	055B73814CF102B4	12AEB6268DFA3E14	FDD4A30E168C4AE5	E6B8CB8DFA3475AB
	C4B149710F5D6A71	F660943B276786F7	83A35DBE2A64FC26	2E75F34303D39BB0
t=77:	95D33150DE6DF44C	055B73814CF102B4	12AEB6268DFA3E14	FDD4A30E168C4AE5
	C7F7BFF08EBF0D30	C4B149710F5D6A71	F660943B276786F7	83A35DBE2A64FC26
t=78:	5306143F64497B00	95D33150DE6DF44C	055B73814CF102B4	12AEB6268DFA3E14
	CA06A219CC701096	C7F7BFF08EBF0D30	C4B149710F5D6A71	F660943B276786F7
t=79:	FF44D7E1849DBFB3	5306143F64497B00	95D33150DE6DF44C	055B73814CF102B4
	1952E0C3A227C0F2	CA06A219CC701096	C7F7BFF08EBF0D30	C4B149710F5D6A71

H[0] = CBBB9D5DC1059ED8 + FF44D7E2849DBFB3 = CB00753F45A35E8B  
H[1] = 629A292A367CD507 + 5306143F64497B00 = B5A03D699AC65007  
H[2] = 9159015A3070DD17 + 95D33151DE6DF44C = 272C32AB0EDED163  
H[3] = 152FEC08F70E5939 + 055B73824CF102B4 = 1A8B605A43FF5BED  
H[4] = 67332667FFC00B31 + 1952E0C4A227C0F2 = 8086072BA1E7CC23  
H[5] = 8EB44A8768581511 + CA06A21ACC701096 = 58BAECA134C825A7  
H[6] = DB0C2E0D64F98FA7 + C7F7BFF08EBF0D30 = A303EDDF3B89CD7  
H[7] = 47B5481DBEFA4FA4 + C4B149718EBF0D30 = 0C66918ECE57BA15

-----  
Message Digest is

CB00753F 45A35E8B B5A03D69 9AC65007 272C32AB 0EDED163  
1A8B605A 43FF5BED 8086072B A1E7CC23 58BAECA1 34C825A7

=====

Two Block Message Sample

Input Message:

"abcdefghijklmnopqrstu  
abcdefghijklmnopqrstu"

=====

Initial hash value:

H[0] = CBBB9D5DC1059ED8  
H[1] = 629A292A367CD507  
H[2] = 9159015A3070DD17  
H[3] = 152FEC8F70E5939  
H[4] = 67332667FFC00B31  
H[5] = 8EB44A8768581511  
H[6] = DB0C2E0D64F98FA7  
H[7] = 47B5481DBEFA4FA4

=====

Block Contents:

W[0] = 6162636465666768  
W[1] = 6263646566676869  
W[2] = 636465666768696A  
W[3] = 6465666768696A6B  
W[4] = 65666768696A6B6C  
W[5] = 666768696A6B6C6D  
W[6] = 6768696A6B6C6D6E  
W[7] = 68696A6B6C6D6E6F  
W[8] = 696A6B6C6D6E6F70  
W[9] = 6A6B6C6D6E6F7071  
W[10] = 6B6C6D6E6F707172  
W[11] = 6C6D6E6F70717273  
W[12] = 6D6E6F7071727374  
W[13] = 6E6F707172737475  
W[14] = 8000000000000000  
W[15] = 0000000000000000

	A/E	B/F	C/G	D/H
t= 0:	4709949195EDA6F0 BD03F70923C6DD61	CBBB9D5DC1059ED8 67332667FFC00B31	629A292A367CD507 8EB44A8768581511	9159015A3070DD17 DB0C2E0D64F98FA7
t= 1:	78D3F8BC03A38303 AE067F071CD18A36	4709949195EDA6F0 BD03F70923C6DD61	CBBB9D5DC1059ED8 67332667FFC00B31	629A292A367CD507 8EB44A8768581511
t= 2:	ED59D30BEFF95306 C180C7A74ED5CF1F	78D3F8BC03A38303 AE067F071CD18A36	4709949195EDA6F0 BD03F70923C6DD61	CBBB9D5DC1059ED8 67332667FFC00B31
t= 3:	8E7FE2ABA3168F2B D92D19667920B327	ED59D30BEFF95306 C180C7A74ED5CF1F	78D3F8BC03A38303 AE067F071CD18A36	4709949195EDA6F0 BD03F70923C6DD61
t= 4:	1174F9B374A9263A DD371F2D13661C52	8E7FE2ABA3168F2B D92D19667920B327	ED59D30BEFF95306 C180C7A74ED5CF1F	78D3F8BC03A38303 AE067F071CD18A36
t= 5:	27AAAFB7FBEBF806B 21AF3C6430A9AF9C	1174F9B374A9263A DD371F2D13661C52	8E7FE2ABA3168F2B D92D19667920B327	ED59D30BEFF95306 C180C7A74ED5CF1F
t= 6:	B352D03A0BD34D65 69397DE9A30E1473	27AAAFB7FBEBF806B 21AF3C6430A9AF9C	1174F9B374A9263A DD371F2D13661C52	8E7FE2ABA3168F2B D92D19667920B327
t= 7:	412DB7F990563D7C 5062FD5924E2B62E	B352D03A0BD34D65 69397DE9A30E1473	27AAAFB7FBEBF806B 21AF3C6430A9AF9C	1174F9B374A9263A DD371F2D13661C52
t= 8:	0F79040546E6EDF7 6B6C511B25A6BDBC	412DB7F990563D7C 5062FD5924E2B62E	B352D03A0BD34D65 69397DE9A30E1473	27AAAFB7FBEBF806B 21AF3C6430A9AF9C
t= 9:	EBF02410F67B8EE7 DAC695B91543AE80	0F79040546E6EDF7 6B6C511B25A6BDBC	412DB7F990563D7C 5062FD5924E2B62E	B352D03A0BD34D65 69397DE9A30E1473
t=10:	97AA05D89B8DBE6D 83B8B72646C0B598	EBF02410F67B8EE7 DAC695B91543AE80	0F79040546E6EDF7 6B6C511B25A6BDBC	412DB7F990563D7C 5062FD5924E2B62E
t=11:	23D0A36B692118EB A5F6C5155E221E8C	97AA05D89B8DBE6D 83B8B72646C0B598	EBF02410F67B8EE7 DAC695B91543AE80	0F79040546E6EDF7 6B6C511B25A6BDBC
t=12:	E1041368D2FCA1A2 AE01675BFB003180	23D0A36B692118EB A5F6C5155E221E8C	97AA05D89B8DBE6D 83B8B72646C0B598	EBF02410F67B8EE7 DAC695B91543AE80

t=13: 45BD6F69EFEC540D E1041368D2FCA1A2 23D0A36B692118EB 97AA05D89B8DBE6D  
C35CC50C1CF7EF98 AE01675BFB003180 A5F6C5155E221E8C 83B8B72646C0B598  
t=14: C237FA23ABB9BC16 45BD6F69EFEC540D E1041368D2FCA1A2 23D0A36B692118EB  
A16C4F134B28923E C35CC50C1CF7EF98 AE01675BFB003180 A5F6C5155E221E8C  
t=15: B4092DF1C0F81853 C237FA23ABB9BC16 45BD6F69EFEC540D E1041368D2FCA1A2  
008178E17FA649F2 A16C4F134B28923E C35CC50C1CF7EF98 AE01675BFB003180  
t=16: 21E5C91D11809C13 B4092DF1C0F81853 C237FA23ABB9BC16 45BD6F69EFEC540D  
A26DFA04ED8C9B63 008178E17FA649F2 A16C4F134B28923E C35CC50C1CF7EF98  
t=17: 2C957137CD4304A5 21E5C91D11809C13 B4092DF1C0F81853 C237FA23ABB9BC16  
6BE210614B10949B A26DFA04ED8C9B63 008178E17FA649F2 A16C4F134B28923E  
t=18: 2180E61AFE322BC7 2C957137CD4304A5 21E5C91D11809C13 B4092DF1C0F81853  
76396996200065F7 6BE210614B10949B A26DFA04ED8C9B63 008178E17FA649F2  
t=19: F2911C11C96E5FF5 2180E61AFE322BC7 2C957137CD4304A5 21E5C91D11809C13  
1BC2160F4F3711DC 76396996200065F7 6BE210614B10949B A26DFA04ED8C9B63  
t=20: 5EAB10B19A5143A8 F2911C11C96E5FF5 2180E61AFE322BC7 2C957137CD4304A5  
98D2B19D201F2BB6 1BC2160F4F3711DC 76396996200065F7 6BE210614B10949B  
t=21: 29C5348D87CD5590 5EAB10B19A5143A8 F2911C11C96E5FF5 2180E61AFE322BC7  
4324C8CACCF7753C 98D2B19D201F2BB6 1BC2160F4F3711DC 76396996200065F7  
t=22: 33C6B4A0166B7C9C 29C5348D87CD5590 5EAB10B19A5143A8 F2911C11C96E5FF5  
D49CEF5BD2DEC121 4324C8CACCF7753C 98D2B19D201F2BB6 1BC2160F4F3711DC  
t=23: 1DB4EE606D2A7A96 33C6B4A0166B7C9C 29C5348D87CD5590 5EAB10B19A5143A8  
B17D15B397521AB3 D49CEF5BD2DEC121 4324C8CACCF7753C 98D2B19D201F2BB6  
t=24: 5CEF5B2F00142660 1DB4EE606D2A7A96 33C6B4A0166B7C9C 29C5348D87CD5590  
789E540F22E13932 B17D15B397521AB3 D49CEF5BD2DEC121 4324C8CACCF7753C  
t=25: FF74F4A162435903 5CEF5B2F00142660 1DB4EE606D2A7A96 33C6B4A0166B7C9C  
6C0BE33DCC6E7572 789E540F22E13932 B17D15B397521AB3 D49CEF5BD2DEC121  
t=26: 41740B736E9676A9 FF74F4A162435903 5CEF5B2F00142660 1DB4EE606D2A7A96  
D8E401251592DA6C 6C0BE33DCC6E7572 789E540F22E13932 B17D15B397521AB3  
t=27: 931059FE9279FF1D 41740B736E9676A9 FF74F4A162435903 5CEF5B2F00142660  
7F31116887EEA596 D8E401251592DA6C 6C0BE33DCC6E7572 789E540F22E13932  
t=28: 356D08D982E2EAD4 931059FE9279FF1D 41740B736E9676A9 FF74F4A162435903  
40C28C34B1BBE906 7F31116887EEA596 D8E401251592DA6C 6C0BE33DCC6E7572  
t=29: 89DC825E7235C74B 356D08D982E2EAD4 931059FE9279FF1D 41740B736E9676A9  
7A499AE05DA50BF2 40C28C34B1BBE906 7F31116887EEA596 D8E401251592DA6C  
t=30: 97901F333E662FDC 89DC825E7235C74B 356D08D982E2EAD4 931059FE9279FF1D  
4472B2E331DDFAB4 7A499AE05DA50BF2 40C28C34B1BBE906 7F31116887EEA596  
t=31: 69C8F40EB38B6022 97901F333E662FDC 89DC825E7235C74B 356D08D982E2EAD4  
177589502DD39AA2 4472B2E331DDFAB4 7A499AE05DA50BF2 40C28C34B1BBE906  
t=32: 4920943FFE52B207 69C8F40EB38B6022 97901F333E662FDC 89DC825E7235C74B  
6B813A0D0CDF4991 177589502DD39AA2 4472B2E331DDFAB4 7A499AE05DA50BF2  
t=33: B4CB0DF332D108AB 4920943FFE52B207 69C8F40EB38B6022 97901F333E662FDC  
8FE3D28097F18618 6B813A0D0CDF4991 177589502DD39AA2 4472B2E331DDFAB4  
t=34: E7748FBF744A5240 B4CB0DF332D108AB 4920943FFE52B207 69C8F40EB38B6022  
0D7AB03208F1D7A5 8FE3D28097F18618 6B813A0D0CDF4991 177589502DD39AA2  
t=35: 7416CA18D9E265E0 E7748FBF744A5240 B4CB0DF332D108AB 4920943FFE52B207  
11200C2D47C082F8 0D7AB03208F1D7A5 8FE3D28097F18618 6B813A0D0CDF4991  
t=36: 75476F5456E82F9C 7416CA18D9E265E0 E7748FBF744A5240 B4CB0DF332D108AB  
3024702447F76224 11200C2D47C082F8 0D7AB03208F1D7A5 8FE3D28097F18618  
t=37: F638A568B53A2F8F 75476F5456E82F9C 7416CA18D9E265E0 E7748FBF744A5240  
6217C1C02153302C 3024702447F76224 11200C2D47C082F8 0D7AB03208F1D7A5  
t=38: C418F6F90602C79A F638A568B53A2F8F 75476F5456E82F9C 7416CA18D9E265E0  
87F0901C227ADBB3 6217C1C02153302C 3024702447F76224 11200C2D47C082F8  
t=39: 4F1F4F21DF3DCF43 C418F6F90602C79A F638A568B53A2F8F 75476F5456E82F9C  
FB7C63FCDDF4A1C2 87F0901C227ADBB3 6217C1C02153302C 3024702447F76224  
t=40: 13EB82E4B98D0E67 4F1F4F21DF3DCF43 C418F6F90602C79A F638A568B53A2F8F  
FB6C0E54D48D4F2D FB7C63FCDDF4A1C2 87F0901C227ADBB3 6217C1C02153302C  
t=41: 820E75046567BACE 13EB82E4B98D0E67 4F1F4F21DF3DCF43 C418F6F90602C79A  
B16A9397472F0123 FB6C0E54D48D4F2D FB7C63FCDDF4A1C2 87F0901C227ADBB3

t=42: 741FA5DC290DD02C 820E75046567BACE 13EB82E4B98D0E67 4F1F4F21DF3DCF43  
ED40C88214823792 B16A9397472F0123 FB6C0E54D48D4F2D FB7C63FCDDF4A1C2  
t=43: A4809BF6DA6AA8BD 741FA5DC290DD02C 820E75046567BACE 13EB82E4B98D0E67  
BEC3D7E88C855194 ED40C88214823792 B16A9397472F0123 FB6C0E54D48D4F2D  
t=44: D70B1AA4C800979C A4809BF6DA6AA8BD 741FA5DC290DD02C 820E75046567BACE  
4962F310BDBD54B0 BEC3D7E88C855194 ED40C88214823792 B16A9397472F0123  
t=45: 9A195492CFDB4745 D70B1AA4C800979C A4809BF6DA6AA8BD 741FA5DC290DD02C  
2C82D09CF05CF687 4962F310BDBD54B0 BEC3D7E88C855194 ED40C88214823792  
t=46: B7E68364F07F017E 9A195492CFDB4745 D70B1AA4C800979C A4809BF6DA6AA8BD  
2A1FFB84031B1B6C 2C82D09CF05CF687 4962F310BDBD54B0 BEC3D7E88C855194  
t=47: 0E574B8E0B35E452 B7E68364F07F017E 9A195492CFDB4745 D70B1AA4C800979C  
29BDAB29EE472A23 2A1FFB84031B1B6C 2C82D09CF05CF687 4962F310BDBD54B0  
t=48: C176009CF82FA842 0E574B8E0B35E452 B7E68364F07F017E 9A195492CFDB4745  
CCA47FBE31B335F4 29BDAB29EE472A23 2A1FFB84031B1B6C 2C82D09CF05CF687  
t=49: 5D4F78C7A9BDBED2 C176009CF82FA842 0E574B8E0B35E452 B7E68364F07F017E  
EAF198615E99FFDC CCA47FBE31B335F4 29BDAB29EE472A23 2A1FFB84031B1B6C  
t=50: 51AB3BE828D8D13C 5D4F78C7A9BDBED2 C176009CF82FA842 0E574B8E0B35E452  
BD527CD188FB59AE EAF198615E99FFDC CCA47FBE31B335F4 29BDAB29EE472A23  
t=51: 4D639EF80D0F6D3E 51AB3BE828D8D13C 5D4F78C7A9BDBED2 C176009CF82FA842  
B2611B90F90D732F BD527CD188FB59AE EAF198615E99FFDC CCA47FBE31B335F4  
t=52: BBA9C9EFE0FBC6C8 4D639EF80D0F6D3E 51AB3BE828D8D13C 5D4F78C7A9BDBED2  
FC0579337591A2C9 B2611B90F90D732F BD527CD188FB59AE EAF198615E99FFDC  
t=53: 3405D7CAD2E8A689 BBA9C9EFE0FBC6C8 4D639EF80D0F6D3E 51AB3BE828D8D13C  
0F6649F64EC8E109 FC0579337591A2C9 B2611B90F90D732F BD527CD188FB59AE  
t=54: EA54D908505798B3 3405D7CAD2E8A689 BBA9C9EFE0FBC6C8 4D639EF80D0F6D3E  
EF48A48999108077 0F6649F64EC8E109 FC0579337591A2C9 B2611B90F90D732F  
t=55: BE31D1C0CCC143BC EA54D908505798B3 3405D7CAD2E8A689 BBA9C9EFE0FBC6C8  
4FC2D4CAD0C91AFC EF48A48999108077 0F6649F64EC8E109 FC0579337591A2C9  
t=56: 285A76D23F6A0073 BE31D1C0CCC143BC EA54D908505798B3 3405D7CAD2E8A689  
A730855599B738A3 4FC2D4CAD0C91AFC EF48A48999108077 0F6649F64EC8E109  
t=57: A714CEFF14BEBBC24 285A76D23F6A0073 BE31D1C0CCC143BC EA54D908505798B3  
53C581DAE1831D80 A730855599B738A3 4FC2D4CAD0C91AFC EF48A48999108077  
t=58: 697CA14913A50A26 A714CEFF14BEBBC24 285A76D23F6A0073 BE31D1C0CCC143BC  
34D39344354AACD2 53C581DAE1831D80 A730855599B738A3 4FC2D4CAD0C91AFC  
t=59: 3A38FA3775D7007C 697CA14913A50A26 A714CEFF14BEBBC24 285A76D23F6A0073  
E26F3A21E9A27691 34D39344354AACD2 53C581DAE1831D80 A730855599B738A3  
t=60: 44EA14D8E450C844 3A38FA3775D7007C 697CA14913A50A26 A714CEFF14BEBBC24  
5319374FB88DD485 E26F3A21E9A27691 34D39344354AACD2 53C581DAE1831D80  
t=61: 0928B75C925F91E2 44EA14D8E450C844 3A38FA3775D7007C 697CA14913A50A26  
79F4BE3C5A372911 5319374FB88DD485 E26F3A21E9A27691 34D39344354AACD2  
t=62: 6DB5469FA19C0E27 0928B75C925F91E2 44EA14D8E450C844 3A38FA3775D7007C  
16BEEC0FEC168E79 79F4BE3C5A372911 5319374FB88DD485 E26F3A21E9A27691  
t=63: 384E3159898A7362 6DB5469FA19C0E27 0928B75C925F91E2 44EA14D8E450C844  
55FA3AD1102298A8 16BEEC0FEC168E79 79F4BE3C5A372911 5319374FB88DD485  
t=64: 483C64D3FDEBF828 384E3159898A7362 6DB5469FA19C0E27 0928B75C925F91E2  
1A238431921EA75E 55FA3AD1102298A8 16BEEC0FEC168E79 79F4BE3C5A372911  
t=65: C9464988A1939BCF 483C64D3FDEBF828 384E3159898A7362 6DB5469FA19C0E27  
E3F3F08AC90F86CD 1A238431921EA75E 55FA3AD1102298A8 16BEEC0FEC168E79  
t=66: 98BC93BCA795059C C9464988A1939BCF 483C64D3FDEBF828 384E3159898A7362  
9E04FB49A5FD91DE E3F3F08AC90F86CD 1A238431921EA75E 55FA3AD1102298A8  
t=67: B6FC101AD1D74E20 98BC93BCA795059C C9464988A1939BCF 483C64D3FDEBF828  
FD13CD3620F6C1F4 9E04FB49A5FD91DE E3F3F08AC90F86CD 1A238431921EA75E  
t=68: FAC26E6E4DA4705D B6FC101AD1D74E20 98BC93BCA795059C C9464988A1939BCF  
0D60228AA6E55B6E FD13CD3620F6C1F4 9E04FB49A5FD91DE E3F3F08AC90F86CD  
t=69: 2A630C58CC27FCAA FAC26E6E4DA4705D B6FC101AD1D74E20 98BC93BCA795059C  
A2F7F27A3EC25ABA 0D60228AA6E55B6E FD13CD3620F6C1F4 9E04FB49A5FD91DE  
t=70: 159A02D4FAEE11B4 2A630C58CC27FCAA FAC26E6E4DA4705D B6FC101AD1D74E20  
B2860FC55BDEDA6 A2F7F27A3EC25ABA 0D60228AA6E55B6E FD13CD3620F6C1F4

t=71:	9D38BDB9DF22B557 DFC37C68AF65F8BC	159A02D4FAEE11B4 B2860FC55BDEDAA6	2A630C58CC27FCAA A2F7F27A3EC25ABA	FAC26E6E4DA4705D 0D60228AA6E55B6E
t=72:	D42C3A57CFA78513 BB56DEA6A325BA32	9D38BDB9DF22B557 DFC37C68AF65F8BC	159A02D4FAEE11B4 B2860FC55BDEDAA6	2A630C58CC27FCAA A2F7F27A3EC25ABA
t=73:	ABAB4B0CA75A17C7 9AC71D1C037A8BBB	D42C3A57CFA78513 BB56DEA6A325BA32	9D38BDB9DF22B557 DFC37C68AF65F8BC	159A02D4FAEE11B4 B2860FC55BDEDAA6
t=74:	500F7B61186F6C2E 8347F5736531B3EC	ABAB4B0CA75A17C7 9AC71D1C037A8BBB	D42C3A57CFA78513 BB56DEA6A325BA32	9D38BDB9DF22B557 DFC37C68AF65F8BC
t=75:	4ABE0AF6A67DB2FE 14E986342DDCED0F	500F7B61186F6C2E 8347F5736531B3EC	ABAB4B0CA75A17C7 9AC71D1C037A8BBB	D42C3A57CFA78513 BB56DEA6A325BA32
t=76:	E1053FC85F9E56BE 4779767CC2EC5321	4ABE0AF6A67DB2FE 14E986342DDCED0F	500F7B61186F6C2E 8347F5736531B3EC	ABAB4B0CA75A17C7 9AC71D1C037A8BBB
t=77:	7001201948FB3D71 5CDF6C58FC052572	E1053FC85F9E56BE 4779767CC2EC5321	4ABE0AF6A67DB2FE 14E986342DDCED0F	500F7B61186F6C2E 8347F5736531B3EC
t=78:	88146DA76FF6F23A 8901CFFE7A74DB98	7001201948FB3D71 5CDF6C58FC052572	E1053FC85F9E56BE 4779767CC2EC5321	4ABE0AF6A67DB2FE 14E986342DDCED0F
t=79:	5EC3802B9ECFEF33 5F2EEAD69EFB4233	88146DA76FF6F23A 8901CFFE7A74DB98	7001201948FB3D71 5CDF6C58FC052572	E1053FC85F9E56BE 4779767CC2EC5321

H[0] = CBBB9D5DC1059ED8 + 5EC3802C9ECFEF33 = 2A7F1D895FD58E0B  
H[1] = 629A292A367CD507 + 88146DA76FF6F23A = EAAE96D1A673C741  
H[2] = 9159015A3070DD17 + 7001201948FB3D71 = 015A2173796C1A88  
H[3] = 152FEC8D8F70E5939 + E1053FC95F9E56BE = F6352CA156ACAFF7  
H[4] = 67332667FFC00B31 + 5F2EEAD79EFB4233 = C662113E9EBB4D64  
H[5] = 8EB44A8768581511 + 8901CFFE7A74DB98 = 17B61A85E2CCF0A9  
H[6] = DB0C2E0D64F98FA7 + 5CDF6C59FC052572 = 37EB9A6660FEB519  
H[7] = 47B5481DBEFA4FA4 + 4779767DFC052572 = 8F2EBE9A81E6A2C5

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Block Contents:

W[0] = 0000000000000000  
W[1] = 0000000000000000  
W[2] = 0000000000000000  
W[3] = 0000000000000000  
W[4] = 0000000000000000  
W[5] = 0000000000000000  
W[6] = 0000000000000000  
W[7] = 0000000000000000  
W[8] = 0000000000000000  
W[9] = 0000000000000000  
W[10] = 0000000000000000  
W[11] = 0000000000000000  
W[12] = 0000000000000000  
W[13] = 0000000000000000  
W[14] = 0000000000000000  
W[15] = 0000000000000380

	A/E	B/F	C/G	D/H
t= 0:	657A3C2CA9639D40 791F2AD0055FDD62	2A7F1D895FD58E0B C662113E9EBB4D64	EAAE96D1A673C741 17B61A85E2CCF0A9	015A2173796C1A88 37EB9A6660FEB519
t= 1:	2A4AD5D9B9FD6D86 DBF2E656B5BE3F14	657A3C2CA9639D40 791F2AD0055FDD62	2A7F1D895FD58E0B C662113E9EBB4D64	EAAE96D1A673C741 17B61A85E2CCF0A9
t= 2:	F0AA6758653D1664 6E0466C82F4FD35D	2A4AD5D9B9FD6D86 DBF2E656B5BE3F14	657A3C2CA9639D40 791F2AD0055FDD62	2A7F1D895FD58E0B C662113E9EBB4D64
t= 3:	43A76F011A73D317 1367BD36D15E8B40	F0AA6758653D1664 6E0466C82F4FD35D	2A4AD5D9B9FD6D86 DBF2E656B5BE3F14	657A3C2CA9639D40 791F2AD0055FDD62
t= 4:	D802C2DFD7CC48F6	43A76F011A73D317	F0AA6758653D1664	2A4AD5D9B9FD6D86

	F73D759B839A2A21	1367BD36D15E8B40	6E0466C82F4FD35D	DBF2E656B5BE3F14
t= 5:	481208E5E8314602	D802C2DFD7CC48F6	43A76F011A73D317	F0AA6758653D1664
	6B2271A46F14C843	F73D759B839A2A21	1367BD36D15E8B40	6E0466C82F4FD35D
t= 6:	AF9F8112DF35CF33	481208E5E8314602	D802C2DFD7CC48F6	43A76F011A73D317
	257F4A7D524D7B0B	6B2271A46F14C843	F73D759B839A2A21	1367BD36D15E8B40
t= 7:	6730781342D1131B	AF9F8112DF35CF33	481208E5E8314602	D802C2DFD7CC48F6
	81957AD408CEC995	257F4A7D524D7B0B	6B2271A46F14C843	F73D759B839A2A21
t= 8:	82E64C677356A82E	6730781342D1131B	AF9F8112DF35CF33	481208E5E8314602
	10B62FDCE4EBAA51	81957AD408CEC995	257F4A7D524D7B0B	6B2271A46F14C843
t= 9:	203578820A8F27D0	82E64C677356A82E	6730781342D1131B	AF9F8112DF35CF33
	9937B3A0CB9248A1	10B62FDCE4EBAA51	81957AD408CEC995	257F4A7D524D7B0B
t=10:	0BAC2A84C29A1E2B	203578820A8F27D0	82E64C677356A82E	6730781342D1131B
	6AD288DAB3DE0D53	9937B3A0CB9248A1	10B62FDCE4EBAA51	81957AD408CEC995
t=11:	DD3FF8A140485C25	0BAC2A84C29A1E2B	203578820A8F27D0	82E64C677356A82E
	3149B728123C465E	6AD288DAB3DE0D53	9937B3A0CB9248A1	10B62FDCE4EBAA51
t=12:	E826239F830C5346	DD3FF8A140485C25	0BAC2A84C29A1E2B	203578820A8F27D0
	4BB7B199C4CED186	3149B728123C465E	6AD288DAB3DE0D53	9937B3A0CB9248A1
t=13:	32215CE49AAE40F8	E826239F830C5346	DD3FF8A140485C25	0BAC2A84C29A1E2B
	9A2872C72D790D49	4BB7B199C4CED186	3149B728123C465E	6AD288DAB3DE0D53
t=14:	859533BAC457F94E	32215CE49AAE40F8	E826239F830C5346	DD3FF8A140485C25
	539F225D25EBEB4C	9A2872C72D790D49	4BB7B199C4CED186	3149B728123C465E
t=15:	A88704D9962849F3	859533BAC457F94E	32215CE49AAE40F8	E826239F830C5346
	63BF0472EF24F7A5	539F225D25EBEB4C	9A2872C72D790D49	4BB7B199C4CED186
t=16:	3AA5C566A6CFAD1C	A88704D9962849F3	859533BAC457F94E	32215CE49AAE40F8
	CE23F6380EAD33C2	63BF0472EF24F7A5	539F225D25EBEB4C	9A2872C72D790D49
t=17:	2E9C483A7C08C9C1	3AA5C566A6CFAD1C	A88704D9962849F3	859533BAC457F94E
	B033F945F3E6B4A2	CE23F6380EAD33C2	63BF0472EF24F7A5	539F225D25EBEB4C
t=18:	5A68585AE0835231	2E9C483A7C08C9C1	3AA5C566A6CFAD1C	A88704D9962849F3
	8A0187A9CE93D875	B033F945F3E6B4A2	CE23F6380EAD33C2	63BF0472EF24F7A5
t=19:	CF9CD481E6407CED	5A68585AE0835231	2E9C483A7C08C9C1	3AA5C566A6CFAD1C
	37A29FA30531BAC7	8A0187A9CE93D875	B033F945F3E6B4A2	CE23F6380EAD33C2
t=20:	3F463F864F6474D9	CF9CD481E6407CED	5A68585AE0835231	2E9C483A7C08C9C1
	0CF45BB3C07E847D	37A29FA30531BAC7	8A0187A9CE93D875	B033F945F3E6B4A2
t=21:	CEA26288DFF931A5	3F463F864F6474D9	CF9CD481E6407CED	5A68585AE0835231
	34F1B5F46BF48A73	0CF45BB3C07E847D	37A29FA30531BAC7	8A0187A9CE93D875
t=22:	89634CD0F4F6C08A	CEA26288DFF931A5	3F463F864F6474D9	CF9CD481E6407CED
	3A728A543405A8E4	34F1B5F46BF48A73	0CF45BB3C07E847D	37A29FA30531BAC7
t=23:	625FA38464E5C880	89634CD0F4F6C08A	CEA26288DFF931A5	3F463F864F6474D9
	CEE1B47A49B2FC42	3A728A543405A8E4	34F1B5F46BF48A73	0CF45BB3C07E847D
t=24:	7DD21453A15A3B92	625FA38464E5C880	89634CD0F4F6C08A	CEA26288DFF931A5
	9308BFA1BE1F800B	CEE1B47A49B2FC42	3A728A543405A8E4	34F1B5F46BF48A73
t=25:	3D76277BC8CB0601	7DD21453A15A3B92	625FA38464E5C880	89634CD0F4F6C08A
	480E017F5D1F0B1E	9308BFA1BE1F800B	CEE1B47A49B2FC42	3A728A543405A8E4
t=26:	C8D904196F5A1F54	3D76277BC8CB0601	7DD21453A15A3B92	625FA38464E5C880
	4BD2F1F6E940C332	480E017F5D1F0B1E	9308BFA1BE1F800B	CEE1B47A49B2FC42
t=27:	B033139B58B6E423	C8D904196F5A1F54	3D76277BC8CB0601	7DD21453A15A3B92
	F816EC1CBE0ADAFB	4BD2F1F6E940C332	480E017F5D1F0B1E	9308BFA1BE1F800B
t=28:	097768182CB65F57	B033139B58B6E423	C8D904196F5A1F54	3D76277BC8CB0601
	62E3DE54DCD8F974	F816EC1CBE0ADAFB	4BD2F1F6E940C332	480E017F5D1F0B1E
t=29:	3196649AB5F5CC39	097768182CB65F57	B033139B58B6E423	C8D904196F5A1F54
	F6887DE116D0BD8F	62E3DE54DCD8F974	F816EC1CBE0ADAFB	4BD2F1F6E940C332
t=30:	F78D3D221D16965F	3196649AB5F5CC39	097768182CB65F57	B033139B58B6E423
	C7E4859C2858ED3C	F6887DE116D0BD8F	62E3DE54DCD8F974	F816EC1CBE0ADAFB
t=31:	F58E9876B4984B51	F78D3D221D16965F	3196649AB5F5CC39	097768182CB65F57
	621352B394B8CA02	C7E4859C2858ED3C	F6887DE116D0BD8F	62E3DE54DCD8F974
t=32:	38FBF0E726E04F78	F58E9876B4984B51	F78D3D221D16965F	3196649AB5F5CC39
	4319856F17A0A430	621352B394B8CA02	C7E4859C2858ED3C	F6887DE116D0BD8F
t=33:	F4BE0B32A57597A2	38FBF0E726E04F78	F58E9876B4984B51	F78D3D221D16965F

	C6D392A3B4EB0ED8	4319856F17A0A430	621352B394B8CA02	C7E4859C2858ED3C
t=34:	F8A6B3FE2E4F0634	F4BE0B32A57597A2	38FBF0E726E04F78	F58E9876B4984B51
	602663C0F34EFF33	C6D392A3B4EB0ED8	4319856F17A0A430	621352B394B8CA02
t=35:	9BC3871BE8046113	F8A6B3FE2E4F0634	F4BE0B32A57597A2	38FBF0E726E04F78
	05542ECD9883C6BA	602663C0F34EFF33	C6D392A3B4EB0ED8	4319856F17A0A430
t=36:	F1BD2D46BE619585	9BC3871BE8046113	F8A6B3FE2E4F0634	F4BE0B32A57597A2
	E47B9933BAFDC655	05542ECD9883C6BA	602663C0F34EFF33	C6D392A3B4EB0ED8
t=37:	24C84B58D119AFFE	F1BD2D46BE619585	9BC3871BE8046113	F8A6B3FE2E4F0634
	5AE0B1175BEB5D2B	E47B9933BAFDC655	05542ECD9883C6BA	602663C0F34EFF33
t=38:	EC6D3ABC2B291FD3	24C84B58D119AFFE	F1BD2D46BE619585	9BC3871BE8046113
	9ECC381D277748A3	5AE0B1175BEB5D2B	E47B9933BAFDC655	05542ECD9883C6BA
t=39:	E266C1F77D5EE90E	EC6D3ABC2B291FD3	24C84B58D119AFFE	F1BD2D46BE619585
	D92F34C110296B32	9ECC381D277748A3	5AE0B1175BEB5D2B	E47B9933BAFDC655
t=40:	5ADBAA463642B570	E266C1F77D5EE90E	EC6D3ABC2B291FD3	24C84B58D119AFFE
	83E8F410F859388E	D92F34C110296B32	9ECC381D277748A3	5AE0B1175BEB5D2B
t=41:	50FDB7BB2E499A34	5ADBAA463642B570	E266C1F77D5EE90E	EC6D3ABC2B291FD3
	257ED8EA645E933A	83E8F410F859388E	D92F34C110296B32	9ECC381D277748A3
t=42:	06514212BB7FA152	50FDB7BB2E499A34	5ADBAA463642B570	E266C1F77D5EE90E
	466781DB35181ABE	257ED8EA645E933A	83E8F410F859388E	D92F34C110296B32
t=43:	673ED5A55FF2B07D	06514212BB7FA152	50FDB7BB2E499A34	5ADBAA463642B570
	BA78F3545E7914F0	466781DB35181ABE	257ED8EA645E933A	83E8F410F859388E
t=44:	125E2E5118393E2B	673ED5A55FF2B07D	06514212BB7FA152	50FDB7BB2E499A34
	4453B23A3E13B090	BA78F3545E7914F0	466781DB35181ABE	257ED8EA645E933A
t=45:	07EE813DF5910CEC	125E2E5118393E2B	673ED5A55FF2B07D	06514212BB7FA152
	EAE013A0510D23CC	4453B23A3E13B090	BA78F3545E7914F0	466781DB35181ABE
t=46:	0A0508F0A1D719C3	07EE813DF5910CEC	125E2E5118393E2B	673ED5A55FF2B07D
	A93815EB58891016	EAE013A0510D23CC	4453B23A3E13B090	BA78F3545E7914F0
t=47:	0FC8F3B3EFCB1B96	0A0508F0A1D719C3	07EE813DF5910CEC	125E2E5118393E2B
	A071CC73B966E801	A93815EB58891016	EAE013A0510D23CC	4453B23A3E13B090
t=48:	02AA5B28199F304A	0FC8F3B3EFCB1B96	0A0508F0A1D719C3	07EE813DF5910CEC
	A49F1E14F8A2BE7A	A071CC73B966E801	A93815EB58891016	EAE013A0510D23CC
t=49:	9223E1B34382F104	02AA5B28199F304A	0FC8F3B3EFCB1B96	0A0508F0A1D719C3
	BFE2106E512A7331	A49F1E14F8A2BE7A	A071CC73B966E801	A93815EB58891016
t=50:	E01A1E47EE8D5656	9223E1B34382F104	02AA5B28199F304A	0FC8F3B3EFCB1B96
	592B899B35469A78	BFE2106E512A7331	A49F1E14F8A2BE7A	A071CC73B966E801
t=51:	FA7B17AAD857C2F4	E01A1E47EE8D5656	9223E1B34382F104	02AA5B28199F304A
	EB6E85E4682C1671	592B899B35469A78	BFE2106E512A7331	A49F1E14F8A2BE7A
t=52:	0C523B7A3C84AB77	FA7B17AAD857C2F4	E01A1E47EE8D5656	9223E1B34382F104
	B5E80E871AC0C005	EB6E85E4682C1671	592B899B35469A78	BFE2106E512A7331
t=53:	C773D8B69DA1FDE2	0C523B7A3C84AB77	FA7B17AAD857C2F4	E01A1E47EE8D5656
	BE2B0602FC6F8F65	B5E80E871AC0C005	EB6E85E4682C1671	592B899B35469A78
t=54:	C6B1BC79A4F23679	C773D8B69DA1FDE2	0C523B7A3C84AB77	FA7B17AAD857C2F4
	C80BDC57F38A05E4	BE2B0602FC6F8F65	B5E80E871AC0C005	EB6E85E4682C1671
t=55:	BEF9BB0FE467FD60	C6B1BC79A4F23679	C773D8B69DA1FDE2	0C523B7A3C84AB77
	1DAB0BD116E434E5	C80BDC57F38A05E4	BE2B0602FC6F8F65	B5E80E871AC0C005
t=56:	8E3DB3E380EC7F22	BEF9BB0FE467FD60	C6B1BC79A4F23679	C773D8B69DA1FDE2
	32EF50751734FFEE	1DAB0BD116E434E5	C80BDC57F38A05E4	BE2B0602FC6F8F65
t=57:	1003EC42412C7B7D	8E3DB3E380EC7F22	BEF9BB0FE467FD60	C6B1BC79A4F23679
	1EC0D46F349FD058	32EF50751734FFEE	1DAB0BD116E434E5	C80BDC57F38A05E4
t=58:	375FACCF6291F85E	1003EC42412C7B7D	8E3DB3E380EC7F22	BEF9BB0FE467FD60
	59C8BC0488F9768B	1EC0D46F349FD058	32EF50751734FFEE	1DAB0BD116E434E5
t=59:	BD113D92E0354FB9	375FACCF6291F85E	1003EC42412C7B7D	8E3DB3E380EC7F22
	E66C73DB3FAD397D	59C8BC0488F9768B	1EC0D46F349FD058	32EF50751734FFEE
t=60:	2F61D4FD8E36D9D4	BD113D92E0354FB9	375FACCF6291F85E	1003EC42412C7B7D
	E9F21933E1C02948	E66C73DB3FAD397D	59C8BC0488F9768B	1EC0D46F349FD058
t=61:	1B1AD88B92701AE2	2F61D4FD8E36D9D4	E9F21933E1C02948	59C8BC0488F9768B
	6FD0C1719BCAC335	E66C73DB3FAD397D	59C8BC0488F9768B	1EC0D46F349FD058
t=62:	93D09FC06A19C5DA	1B1AD88B92701AE2	2F61D4FD8E36D9D4	BD113D92E0354FB9

	B765273F571A571E	6FD0C1719BCAC335	E9F21933E1C02948	E66C73DB3FAD397D
t=63:	04BEA2CE99CC3BF6	93D09FC06A19C5DA	1B1AD88B92701AE2	2F61D4FD8E36D9D4
	6AB0E443C2F63714	B765273F571A571E	6FD0C1719BCAC335	E9F21933E1C02948
t=64:	02EBFC0A13492F52	04BEA2CE99CC3BF6	93D09FC06A19C5DA	1B1AD88B92701AE2
	77300C52E05AF415	6AB0E443C2F63714	B765273F571A571E	6FD0C1719BCAC335
t=65:	1BF525ABCE8D6F04	02EBFC0A13492F52	04BEA2CE99CC3BF6	93D09FC06A19C5DA
	8FAF12C33BB371B9	77300C52E05AF415	6AB0E443C2F63714	B765273F571A571E
t=66:	B6A36A3431547328	1BF525ABCE8D6F04	02EBFC0A13492F52	04BEA2CE99CC3BF6
	FA8BB40B4E08100F	8FAF12C33BB371B9	77300C52E05AF415	6AB0E443C2F63714
t=67:	FFDAF83202AF0D72	B6A36A3431547328	1BF525ABCE8D6F04	02EBFC0A13492F52
	8045A82F723A9B4E	FA8BB40B4E08100F	8FAF12C33BB371B9	77300C52E05AF415
t=68:	12737373D2985232	FFDAF83202AF0D72	B6A36A3431547328	1BF525ABCE8D6F04
	870DBCE23BAD8988	8045A82F723A9B4E	FA8BB40B4E08100F	8FAF12C33BB371B9
t=69:	6189F68162B256B5	12737373D2985232	FFDAF83202AF0D72	B6A36A3431547328
	8C059AF157146580	870DBCE23BAD8988	8045A82F723A9B4E	FA8BB40B4E08100F
t=70:	20B0A9A1D21C482D	6189F68162B256B5	12737373D2985232	FFDAF83202AF0D72
	F22B874C96785EC8	8C059AF157146580	870DBCE23BAD8988	8045A82F723A9B4E
t=71:	EF6D863C2127B394	20B0A9A1D21C482D	6189F68162B256B5	12737373D2985232
	B7AEE28337D69DAB	F22B874C96785EC8	8C059AF157146580	870DBCE23BAD8988
t=72:	D3EFE8B442689074	EF6D863C2127B394	20B0A9A1D21C482D	6189F68162B256B5
	22491AB9CDECB6B0	B7AEE28337D69DAB	F22B874C96785EC8	8C059AF157146580
t=73:	4694354944A9F487	D3EFE8B442689074	EF6D863C2127B394	20B0A9A1D21C482D
	659890A5818D0C50	22491AB9CDECB6B0	B7AEE28337D69DAB	F22B874C96785EC8
t=74:	B93C2403773DD08C	4694354944A9F487	D3EFE8B442689074	EF6D863C2127B394
	88C2C2AC52C4F679	659890A5818D0C50	22491AB9CDECB6B0	B7AEE28337D69DAB
t=75:	025848E3AB6B69D3	B93C2403773DD08C	4694354944A9F487	D3EFE8B442689074
	750DA3D4E16A1B64	88C2C2AC52C4F679	659890A5818D0C50	22491AB9CDECB6B0
t=76:	396B53E58D04471B	025848E3AB6B69D3	B93C2403773DD08C	4694354944A9F487
	700486BF252CBA75	750DA3D4E16A1B64	88C2C2AC52C4F679	659890A5818D0C50
t=77:	51B6F9A3C1CEEB4A	396B53E58D04471B	025848E3AB6B69D3	B93C2403773DD08C
	E6B3850DE8AE6230	700486BF252CBA75	750DA3D4E16A1B64	88C2C2AC52C4F679
t=78:	526A98F5DC595406	51B6F9A3C1CEEB4A	396B53E58D04471B	025848E3AB6B69D3
	4F0DCF74AEA76F90	E6B3850DE8AE6230	700486BF252CBA75	750DA3D4E16A1B64
t=79:	DEB3EEAA973BB9DD	526A98F5DC595406	51B6F9A3C1CEEB4A	396B53E58D04471B
	3665B5DBB6C2E055	4F0DCF74AEA76F90	E6B3850DE8AE6230	700486BF252CBA75

H[0] = 2A7F1D895FD58E0B + DEB3EEAA973BB9DD = 09330C33F71147E8  
H[1] = EAAE96D1A673C741 + 526A98F6DC595406 = 3D192FC782CD1B47  
H[2] = 015A2173796C1A88 + 51B6F9A4C1CEEB4A = 53111B173B3B05D2  
H[3] = F6352CA156ACAFF7 + 396B53E58D04471B = 2FA08086E3B0F712  
H[4] = C662113E9EBB4D64 + 3665B5DCB6C2E055 = FCC7C71A557E2DB9  
H[5] = 17B61A85E2CCF0A9 + 4F0DCF75AEA76F90 = 66C3E9FA91746039  
H[6] = 37EB9A6660FEB519 + E6B3850DE8AE6230 = 1E9F1F7449AD1749  
H[7] = 8F2EBE9A81E6A2C5 + 700486BFE8AE6230 = FF334559A7135D3A

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Message Digest is

09330C33 F71147E8 3D192FC7 82CD1B47 53111B17 3B3B05D2  
2FA08086 E3B0F712 FCC7C71A 557E2DB9 66C3E9FA 91746039

#####

Secure Hash Algorithm  
Message Digest Length = 512

#####

One Block Message Sample

Input Message: "abc"

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Initial hash value:

- H[0] = 6A09E667F3BCC908
- H[1] = BB67AE8584CAA73B
- H[2] = 3C6EF372FE94F82B
- H[3] = A54FF53A5F1D36F1
- H[4] = 510E527FADE682D1
- H[5] = 9B05688C2B3E6C1F
- H[6] = 1F83D9ABFB41BD6B
- H[7] = 5BE0CD19137E2179

=====

Block Contents:

- W[0] = 6162638000000000
- W[1] = 0000000000000000
- W[2] = 0000000000000000
- W[3] = 0000000000000000
- W[4] = 0000000000000000
- W[5] = 0000000000000000
- W[6] = 0000000000000000
- W[7] = 0000000000000000
- W[8] = 0000000000000000
- W[9] = 0000000000000000
- W[10] = 0000000000000000
- W[11] = 0000000000000000
- W[12] = 0000000000000000
- W[13] = 0000000000000000
- W[14] = 0000000000000000
- W[15] = 0000000000000018

	A/E	B/F	C/G	D/H
t= 0:	F6AFCEB8BCFCDDF5 58CB02347AB51F91	6A09E667F3BCC908 510E527FADE682D1	BB67AE8584CAA73B 9B05688C2B3E6C1F	3C6EF372FE94F82B 1F83D9ABFB41BD6B
t= 1:	1320F8C9FB872CC0 C3D4EBFD48650FFA	F6AFCEB8BCFCDDF5 58CB02347AB51F91	6A09E667F3BCC908 510E527FADE682D1	BB67AE8584CAA73B 9B05688C2B3E6C1F
t= 2:	EBCFFC07203D91F3 DFA9B239F2697812	1320F8C9FB872CC0 C3D4EBFD48650FFA	F6AFCEB8BCFCDDF5 58CB02347AB51F91	6A09E667F3BCC908 510E527FADE682D1
t= 3:	5A83CB3E80050E82 0B47B4BB1928990E	EBCFFC07203D91F3 DFA9B239F2697812	1320F8C9FB872CC0 C3D4EBFD48650FFA	F6AFCEB8BCFCDDF5 58CB02347AB51F91
t= 4:	B680953951604860 745ACA4A342ED2E2	5A83CB3E80050E82 0B47B4BB1928990E	EBCFFC07203D91F3 DFA9B239F2697812	1320F8C9FB872CC0 C3D4EBFD48650FFA
t= 5:	AF573B02403E89CD 96F60209B6DC35BA	B680953951604860 745ACA4A342ED2E2	5A83CB3E80050E82 0B47B4BB1928990E	EBCFFC07203D91F3 DFA9B239F2697812
t= 6:	C4875B0C7ABC076B	AF573B02403E89CD	B680953951604860	5A83CB3E80050E82

	5A6C781F54DCC00C	96F60209B6DC35BA	745ACA4A342ED2E2	0B47B4BB1928990E
t= 7:	8093D195E0054FA3	C4875B0C7ABC076B	AF573B02403E89CD	B680953951604860
	86F67263A0F0EC0A	5A6C781F54DCC00C	96F60209B6DC35BA	745ACA4A342ED2E2
t= 8:	F1ECA5544CB89225	8093D195E0054FA3	C4875B0C7ABC076B	AF573B02403E89CD
	D0403C398FC40002	86F67263A0F0EC0A	5A6C781F54DCC00C	96F60209B6DC35BA
t= 9:	81782D4A5DB48F03	F1ECA5544CB89225	8093D195E0054FA3	C4875B0C7ABC076B
	00091F460BE46C52	D0403C398FC40002	86F67263A0F0EC0A	5A6C781F54DCC00C
t=10:	69854C4AA0F25B59	81782D4A5DB48F03	F1ECA5544CB89225	8093D195E0054FA3
	D375471BDE1BA3F4	00091F460BE46C52	D0403C398FC40002	86F67263A0F0EC0A
t=11:	DB0A9963F80C2EAA	69854C4AA0F25B59	81782D4A5DB48F03	F1ECA5544CB89225
	475975B91A7A462C	D375471BDE1BA3F4	00091F460BE46C52	D0403C398FC40002
t=12:	5E41214388186C14	DB0A9963F80C2EAA	69854C4AA0F25B59	81782D4A5DB48F03
	CDF3BFF2883FC9D9	475975B91A7A462C	D375471BDE1BA3F4	00091F460BE46C52
t=13:	44249631255D2CA0	5E41214388186C14	DB0A9963F80C2EAA	69854C4AA0F25B59
	860ACF9EFFBA6F61	CDF3BFF2883FC9D9	475975B91A7A462C	D375471BDE1BA3F4
t=14:	FA967EED85A08028	44249631255D2CA0	5E41214388186C14	DB0A9963F80C2EAA
	874BFE5F6AAE9F2F	860ACF9EFFBA6F61	CDF3BFF2883FC9D9	475975B91A7A462C
t=15:	0AE07C86B1181C75	FA967EED85A08028	44249631255D2CA0	5E41214388186C14
	A77B7C035DD4C161	874BFE5F6AAE9F2F	860ACF9EFFBA6F61	CDF3BFF2883FC9D9
t=16:	CAF81A425D800537	0AE07C86B1181C75	FA967EED85A08028	44249631255D2CA0
	2DEECC6B39D64D78	A77B7C035DD4C161	874BFE5F6AAE9F2F	860ACF9EFFBA6F61
t=17:	4725BE249AD19E6B	CAF81A425D800537	0AE07C86B1181C75	FA967EED85A08028
	F47E8353F8047455	2DEECC6B39D64D78	A77B7C035DD4C161	874BFE5F6AAE9F2F
t=18:	3C4B4104168E3EDB	4725BE249AD19E6B	CAF81A425D800537	0AE07C86B1181C75
	29695FD88D81DBD0	F47E8353F8047455	2DEECC6B39D64D78	A77B7C035DD4C161
t=19:	9A3FB4D38AB6CF06	3C4B4104168E3EDB	4725BE249AD19E6B	CAF81A425D800537
	F14998DD5F70767E	29695FD88D81DBD0	F47E8353F8047455	2DEECC6B39D64D78
t=20:	8DC5AE65569D3855	9A3FB4D38AB6CF06	3C4B4104168E3EDB	4725BE249AD19E6B
	4BB9E66D1145BFDC	F14998DD5F70767E	29695FD88D81DBD0	F47E8353F8047455
t=21:	DA34D6673D452DCF	8DC5AE65569D3855	9A3FB4D38AB6CF06	3C4B4104168E3EDB
	8E30FF09AD488753	4BB9E66D1145BFDC	F14998DD5F70767E	29695FD88D81DBD0
t=22:	3E2644567B709A78	DA34D6673D452DCF	8DC5AE65569D3855	9A3FB4D38AB6CF06
	0AC2B11DA8F571C6	8E30FF09AD488753	4BB9E66D1145BFDC	F14998DD5F70767E
t=23:	4F6877B58FE55484	3E2644567B709A78	DA34D6673D452DCF	8DC5AE65569D3855
	C66005F87DB55233	0AC2B11DA8F571C6	8E30FF09AD488753	4BB9E66D1145BFDC
t=24:	9AFF71163FA3A940	4F6877B58FE55484	3E2644567B709A78	DA34D6673D452DCF
	D3ECF13769180E6F	C66005F87DB55233	0AC2B11DA8F571C6	8E30FF09AD488753
t=25:	0BC5F791F8E6816B	9AFF71163FA3A940	4F6877B58FE55484	3E2644567B709A78
	6DDF1FD7EDCCE336	D3ECF13769180E6F	C66005F87DB55233	0AC2B11DA8F571C6
t=26:	884C3BC27BC4F941	0BC5F791F8E6816B	9AFF71163FA3A940	4F6877B58FE55484
	E6E48C9A8E948365	6DDF1FD7EDCCE336	D3ECF13769180E6F	C66005F87DB55233
t=27:	EAB4A9E5771B8D09	884C3BC27BC4F941	0BC5F791F8E6816B	9AFF71163FA3A940
	09068A4E255A0DAC	E6E48C9A8E948365	6DDF1FD7EDCCE336	D3ECF13769180E6F
t=28:	E62349090F47D30A	EAB4A9E5771B8D09	884C3BC27BC4F941	0BC5F791F8E6816B
	0FCDF99710F21584	09068A4E255A0DAC	E6E48C9A8E948365	6DDF1FD7EDCCE336
t=29:	74BF40F869094C63	E62349090F47D30A	EAB4A9E5771B8D09	884C3BC27BC4F941
	F0AEC2FE1437F085	0FCDF99710F21584	09068A4E255A0DAC	E6E48C9A8E948365
t=30:	4C4FBBB75F1873A6	74BF40F869094C63	E62349090F47D30A	EAB4A9E5771B8D09
	73E025D91B9EFEA3	F0AEC2FE1437F085	0FCDF99710F21584	09068A4E255A0DAC
t=31:	FF4D3F1F0D46A736	4C4FBBB75F1873A6	74BF40F869094C63	E62349090F47D30A
	3CD388E119E8162E	73E025D91B9EFEA3	F0AEC2FE1437F085	0FCDF99710F21584
t=32:	A0509015CA08C8D4	FF4D3F1F0D46A736	4C4FBBB75F1873A6	74BF40F869094C63
	E1034573654A106F	3CD388E119E8162E	73E025D91B9EFEA3	F0AEC2FE1437F085
t=33:	60D4E6995ED91FE6	A0509015CA08C8D4	FF4D3F1F0D46A736	4C4FBBB75F1873A6
	EFABBD8BF47C041A	E1034573654A106F	3CD388E119E8162E	73E025D91B9EFEA3
t=34:	2C59EC7743632621	60D4E6995ED91FE6	A0509015CA08C8D4	FF4D3F1F0D46A736
	0FBAE670FA780FD3	EFABBD8BF47C041A	E1034573654A106F	3CD388E119E8162E
t=35:	1A081AFC59FDBC2C	2C59EC7743632621	60D4E6995ED91FE6	A0509015CA08C8D4

	F098082F502B44CD	0FBAE670FA780FD3	EFABBD8BF47C041A	E1034573654A106F
t=36:	88DF85B0BBE77514	1A081AFC59FDBC2C	2C59EC7743632621	60D4E6995ED91FE6
	8FBFD0162BBF4675	F098082F502B44CD	0FBAE670FA780FD3	EFABBD8BF47C041A
t=37:	002BB8E4CD989567	88DF85B0BBE77514	1A081AFC59FDBC2C	2C59EC7743632621
	66ADCFA249AC7BBD	8FBFD0162BBF4675	F098082F502B44CD	0FBAE670FA780FD3
t=38:	B3BB8542B3376DE5	002BB8E4CD989567	88DF85B0BBE77514	1A081AFC59FDBC2C
	B49596C20FEBA7DE	66ADCFA249AC7BBD	8FBFD0162BBF4675	F098082F502B44CD
t=39:	8E01E125B855D225	B3BB8542B3376DE5	002BB8E4CD989567	88DF85B0BBE77514
	0C710A47BA6A567B	B49596C20FEBA7DE	66ADCFA249AC7BBD	8FBFD0162BBF4675
t=40:	B01521DD6A6BE12C	8E01E125B855D225	B3BB8542B3376DE5	002BB8E4CD989567
	169008B3A4BB170B	0C710A47BA6A567B	B49596C20FEBA7DE	66ADCFA249AC7BBD
t=41:	E96F89DD48CBD851	B01521DD6A6BE12C	8E01E125B855D225	B3BB8542B3376DE5
	F0996439E7B50CB1	169008B3A4BB170B	0C710A47BA6A567B	B49596C20FEBA7DE
t=42:	BC05BA8DE5D3C480	E96F89DD48CBD851	B01521DD6A6BE12C	8E01E125B855D225
	639CB938E14DC190	F0996439E7B50CB1	169008B3A4BB170B	0C710A47BA6A567B
t=43:	35D7E7F41DEFCEBD5	BC05BA8DE5D3C480	E96F89DD48CBD851	B01521DD6A6BE12C
	CC5100997F5710F2	639CB938E14DC190	F0996439E7B50CB1	169008B3A4BB170B
t=44:	C47C9D5C7EA8A234	35D7E7F41DEFCEBD5	BC05BA8DE5D3C480	E96F89DD48CBD851
	858D832AE0E8911C	CC5100997F5710F2	639CB938E14DC190	F0996439E7B50CB1
t=45:	021FBADBABAB5AC6	C47C9D5C7EA8A234	35D7E7F41DEFCEBD5	BC05BA8DE5D3C480
	E95C2A57572D64D9	858D832AE0E8911C	CC5100997F5710F2	639CB938E14DC190
t=46:	F61E672694DE2D67	021FBADBABAB5AC6	C47C9D5C7EA8A234	35D7E7F41DEFCEBD5
	C6BC35740D8DAA9A	E95C2A57572D64D9	858D832AE0E8911C	CC5100997F5710F2
t=47:	6B69FC1BB482FEAC	F61E672694DE2D67	021FBADBABAB5AC6	C47C9D5C7EA8A234
	35264334C03AC8AD	C6BC35740D8DAA9A	E95C2A57572D64D9	858D832AE0E8911C
t=48:	571F323D96B3A047	6B69FC1BB482FEAC	F61E672694DE2D67	021FBADBABAB5AC6
	271580ED6C3E5650	35264334C03AC8AD	C6BC35740D8DAA9A	E95C2A57572D64D9
t=49:	CA9BD862C5050918	571F323D96B3A047	6B69FC1BB482FEAC	F61E672694DE2D67
	DFE091DAB182E645	271580ED6C3E5650	35264334C03AC8AD	C6BC35740D8DAA9A
t=50:	813A43DD2C502043	CA9BD862C5050918	571F323D96B3A047	6B69FC1BB482FEAC
	07A0D8EF821C5E1A	DFE091DAB182E645	271580ED6C3E5650	35264334C03AC8AD
t=51:	D43F83727325DD77	813A43DD2C502043	CA9BD862C5050918	571F323D96B3A047
	483F80A82EAEE23E	07A0D8EF821C5E1A	DFE091DAB182E645	271580ED6C3E5650
t=52:	03DF11B32D42E203	D43F83727325DD77	813A43DD2C502043	CA9BD862C5050918
	504F94E40591CFFA	483F80A82EAEE23E	07A0D8EF821C5E1A	DFE091DAB182E645
t=53:	D63F68037DDF06AA	03DF11B32D42E203	D43F83727325DD77	813A43DD2C502043
	A6781EFE1AA1CE02	504F94E40591CFFA	483F80A82EAEE23E	07A0D8EF821C5E1A
t=54:	F650857B5BABDA4D	D63F68037DDF06AA	03DF11B32D42E203	D43F83727325DD77
	9CCFB31A86DF0F86	A6781EFE1AA1CE02	504F94E40591CFFA	483F80A82EAEE23E
t=55:	63B460E42748817E	F650857B5BABDA4D	D63F68037DDF06AA	03DF11B32D42E203
	C6B4DD2A9931C509	9CCFB31A86DF0F86	A6781EFE1AA1CE02	504F94E40591CFFA
t=56:	7A52912943D52B05	63B460E42748817E	F650857B5BABDA4D	D63F68037DDF06AA
	D2E89BBD91E00BE0	C6B4DD2A9931C509	9CCFB31A86DF0F86	A6781EFE1AA1CE02
t=57:	4B81C3AEC976EA4B	7A52912943D52B05	63B460E42748817E	F650857B5BABDA4D
	70505988124351AC	D2E89BBD91E00BE0	C6B4DD2A9931C509	9CCFB31A86DF0F86
t=58:	581ECB3355DCD9B8	4B81C3AEC976EA4B	7A52912943D52B05	63B460E42748817E
	6A3C9B0F71C8BF36	70505988124351AC	D2E89BBD91E00BE0	C6B4DD2A9931C509
t=59:	2C074484EF1EAC8C	581ECB3355DCD9B8	4B81C3AEC976EA4B	7A52912943D52B05
	4797CDE4ED370692	6A3C9B0F71C8BF36	70505988124351AC	D2E89BBD91E00BE0
t=60:	3857DFD2FC37D3BA	2C074484EF1EAC8C	581ECB3355DCD9B8	4B81C3AEC976EA4B
	A6AF4E9C9F807E51	4797CDE4ED370692	6A3C9B0F71C8BF36	70505988124351AC
t=61:	CFCD928C5424E2B6	3857DFD2FC37D3BA	2C074484EF1EAC8C	581ECB3355DCD9B8
	09AEE5BDA1644DE5	A6AF4E9C9F807E51	4797CDE4ED370692	6A3C9B0F71C8BF36
t=62:	A81DEDBB9F19E643	CFCD928C5424E2B6	3857DFD2FC37D3BA	2C074484EF1EAC8C
	84058865D60A05FA	09AEE5BDA1644DE5	A6AF4E9C9F807E51	4797CDE4ED370692
t=63:	AB44E86276478D85	A81DEDBB9F19E643	CFCD928C5424E2B6	3857DFD2FC37D3BA
	CD881EE59CA6BC53	84058865D60A05FA	09AEE5BDA1644DE5	A6AF4E9C9F807E51
t=64:	5A806D7E9821A501	AB44E86276478D85	A81DEDBB9F19E643	CFCD928C5424E2B6



Initial hash value:

H[0] = 6A09E667F3BCC908  
H[1] = BB67AE8584CAA73B  
H[2] = 3C6EF372FE94F82B  
H[3] = A54FF53A5F1D36F1  
H[4] = 510E527FADE682D1  
H[5] = 9B05688C2B3E6C1F  
H[6] = 1F83D9ABFB41BD6B  
H[7] = 5BE0CD19137E2179

Block Contents:

W[0] = 6162636465666768  
W[1] = 6263646566676869  
W[2] = 636465666768696A  
W[3] = 6465666768696A6B  
W[4] = 65666768696A6B6C  
W[5] = 666768696A6B6C6D  
W[6] = 6768696A6B6C6D6E  
W[7] = 68696A6B6C6D6E6F  
W[8] = 696A6B6C6D6E6F70  
W[9] = 6A6B6C6D6E6F7071  
W[10] = 6B6C6D6E6F707172  
W[11] = 6C6D6E6F70717273  
W[12] = 6D6E6F7071727374  
W[13] = 6E6F707172737475  
W[14] = 8000000000000000  
W[15] = 0000000000000000

	A/E	B/F	C/G	D/H
t= 0:	F6AFCE9D2263455D 58CB0218E01B86F9	6A09E667F3BCC908 510E527FADE682D1	BB67AE8584CAA73B 9B05688C2B3E6C1F	3C6EF372FE94F82B 1F83D9ABFB41BD6B
t= 1:	0B7056A534AE5F62 F8C7198FE39E4C8C	F6AFCE9D2263455D 58CB0218E01B86F9	6A09E667F3BCC908 510E527FADE682D1	BB67AE8584CAA73B 9B05688C2B3E6C1F
t= 2:	2CA82233760C9942 303ECCCD65953DE	0B7056A534AE5F62 F8C7198FE39E4C8C	F6AFCE9D2263455D 58CB0218E01B86F9	6A09E667F3BCC908 510E527FADE682D1
t= 3:	A023F17CE52CDA7B FFDEE5EEDCC9CA42	2CA82233760C9942 303ECCCD65953DE	0B7056A534AE5F62 F8C7198FE39E4C8C	F6AFCE9D2263455D 58CB0218E01B86F9
t= 4:	8F0A67D9D591A1A7 CB4CFBB166505F2F	A023F17CE52CDA7B FFDEE5EEDCC9CA42	2CA82233760C9942 303ECCCD65953DE	0B7056A534AE5F62 F8C7198FE39E4C8C
t= 5:	B466267371ACC493 73D6C84C54D399EE	8F0A67D9D591A1A7 CB4CFBB166505F2F	A023F17CE52CDA7B FFDEE5EEDCC9CA42	2CA82233760C9942 303ECCCD65953DE
t= 6:	658269F1A312FCCD CDC40314975FB275	B466267371ACC493 73D6C84C54D399EE	8F0A67D9D591A1A7 CB4CFBB166505F2F	A023F17CE52CDA7B FFDEE5EEDCC9CA42
t= 7:	65E3519C5B88181B A657850AB3970C5A	658269F1A312FCCD CDC40314975FB275	B466267371ACC493 73D6C84C54D399EE	8F0A67D9D591A1A7 CB4CFBB166505F2F
t= 8:	56604FBB4B6393EC E8B3BE22FBE64DF7	65E3519C5B88181B A657850AB3970C5A	658269F1A312FCCD CDC40314975FB275	B466267371ACC493 73D6C84C54D399EE
t= 9:	C4562769A37D02C0 0062E70A1EF705C1	56604FBB4B6393EC E8B3BE22FBE64DF7	65E3519C5B88181B A657850AB3970C5A	658269F1A312FCCD CDC40314975FB275
t=10:	27C0B4C9186E1736 BC9740477A18AE2D	C4562769A37D02C0 0062E70A1EF705C1	56604FBB4B6393EC E8B3BE22FBE64DF7	65E3519C5B88181B A657850AB3970C5A
t=11:	F17F52FB02F4EB74 BE58522CB9590EE1	27C0B4C9186E1736 BC9740477A18AE2D	C4562769A37D02C0 0062E70A1EF705C1	56604FBB4B6393EC E8B3BE22FBE64DF7
t=12:	F2C245AC903D4A35	F17F52FB02F4EB74	27C0B4C9186E1736	C4562769A37D02C0

	49D5FA3A16DCD502	BE58522CB9590EE1	BC9740477A18AE2D	0062E70A1EF705C1
t=13:	9B04175EA8090DAA EC9C5E98FF98760D	F2C245AC903D4A35 49D5FA3A16DCD502	F17F52FB02F4EB74 BE58522CB9590EE1	27C0B4C9186E1736 BC9740477A18AE2D
t=14:	481B8A6EE5E07031 E4D35B613A5AC420	9B04175EA8090DAA EC9C5E98FF98760D	F2C245AC903D4A35 49D5FA3A16DCD502	F17F52FB02F4EB74 BE58522CB9590EE1
t=15:	9356AC3EC3E51459 701F17D27582443B	481B8A6EE5E07031 E4D35B613A5AC420	9B04175EA8090DAA EC9C5E98FF98760D	F2C245AC903D4A35 49D5FA3A16DCD502
t=16:	B889ED34ABD7AA37 1D05D9BA779A1A78	9356AC3EC3E51459 701F17D27582443B	481B8A6EE5E07031 E4D35B613A5AC420	9B04175EA8090DAA EC9C5E98FF98760D
t=17:	BF537B1F3EDC7381 C362FF9CF932951D	B889ED34ABD7AA37 1D05D9BA779A1A78	9356AC3EC3E51459 701F17D27582443B	481B8A6EE5E07031 E4D35B613A5AC420
t=18:	D4E44D54E8242AD8 459E4E6888919F36	BF537B1F3EDC7381 C362FF9CF932951D	B889ED34ABD7AA37 1D05D9BA779A1A78	9356AC3EC3E51459 701F17D27582443B
t=19:	05F3FBA454E5DE3D CAED4B5FA322B984	D4E44D54E8242AD8 459E4E6888919F36	BF537B1F3EDC7381 C362FF9CF932951D	B889ED34ABD7AA37 1D05D9BA779A1A78
t=20:	CDB73772DC0248BF DC8049AFA6ACD502	05F3FBA454E5DE3D CAED4B5FA322B984	D4E44D54E8242AD8 459E4E6888919F36	BF537B1F3EDC7381 C362FF9CF932951D
t=21:	1D47A3268FF677ED 8407818E9B28CC12	CDB73772DC0248BF DC8049AFA6ACD502	05F3FBA454E5DE3D CAED4B5FA322B984	D4E44D54E8242AD8 459E4E6888919F36
t=22:	AF4E23EB622D0DF4 64B5AE5424598428	1D47A3268FF677ED 8407818E9B28CC12	CDB73772DC0248BF DC8049AFA6ACD502	05F3FBA454E5DE3D CAED4B5FA322B984
t=23:	BE50606778DE14A6 0A5D727CC92E7ADB	AF4E23EB622D0DF4 64B5AE5424598428	1D47A3268FF677ED 8407818E9B28CC12	CDB73772DC0248BF DC8049AFA6ACD502
t=24:	821E44F6678AC478 F367E596D0A038A5	BE50606778DE14A6 0A5D727CC92E7ADB	AF4E23EB622D0DF4 64B5AE5424598428	1D47A3268FF677ED 8407818E9B28CC12
t=25:	0C852B1359A77C18 6DEC8A3396A80C3F	821E44F6678AC478 F367E596D0A038A5	BE50606778DE14A6 0A5D727CC92E7ADB	AF4E23EB622D0DF4 64B5AE5424598428
t=26:	EBB574FAD4B7A7E4 A241E7EFC1EB6FF9	0C852B1359A77C18 6DEC8A3396A80C3F	821E44F6678AC478 F367E596D0A038A5	BE50606778DE14A6 0A5D727CC92E7ADB
t=27:	A092821C3CDF08DA C84E849917A7C08E	EBB574FAD4B7A7E4 A241E7EFC1EB6FF9	0C852B1359A77C18 6DEC8A3396A80C3F	821E44F6678AC478 F367E596D0A038A5
t=28:	82BA2E1A2DF2A4F1 61845F6924789851	A092821C3CDF08DA C84E849917A7C08E	EBB574FAD4B7A7E4 A241E7EFC1EB6FF9	0C852B1359A77C18 6DEC8A3396A80C3F
t=29:	1959AD991C63D06A 231FAF24910A891A	82BA2E1A2DF2A4F1 61845F6924789851	A092821C3CDF08DA C84E849917A7C08E	EBB574FAD4B7A7E4 A241E7EFC1EB6FF9
t=30:	9B32D4CACD9A625B 533066919D608799	1959AD991C63D06A 231FAF24910A891A	82BA2E1A2DF2A4F1 61845F6924789851	A092821C3CDF08DA C84E849917A7C08E
t=31:	DC55339F4D841965 E2517F359998A58D	9B32D4CACD9A625B 533066919D608799	1959AD991C63D06A 231FAF24910A891A	82BA2E1A2DF2A4F1 61845F6924789851
t=32:	FDEBB1283B12514F B1989170A183C661	DC55339F4D841965 E2517F359998A58D	9B32D4CACD9A625B 533066919D608799	1959AD991C63D06A 231FAF24910A891A
t=33:	B44C7975A83E3334 009AD175B8D588A4	FDEBB1283B12514F B1989170A183C661	DC55339F4D841965 E2517F359998A58D	9B32D4CACD9A625B 533066919D608799
t=34:	0BAC61BFC53D18B7 A7D5416D690557B8	B44C7975A83E3334 009AD175B8D588A4	FDEBB1283B12514F B1989170A183C661	DC55339F4D841965 E2517F359998A58D
t=35:	392893C22E75856A 7A7C9EB7BC813248	0BAC61BFC53D18B7 A7D5416D690557B8	B44C7975A83E3334 009AD175B8D588A4	FDEBB1283B12514F B1989170A183C661
t=36:	824408631432E09B 5E696A9FDA56D6BF	392893C22E75856A 7A7C9EB7BC813248	0BAC61BFC53D18B7 A7D5416D690557B8	B44C7975A83E3334 009AD175B8D588A4
t=37:	A64162F151A8C1CB 0F57062401DC680B	824408631432E09B 5E696A9FDA56D6BF	392893C22E75856A 7A7C9EB7BC813248	0BAC61BFC53D18B7 A7D5416D690557B8
t=38:	922537ABAD1E95A1 4F4C193D435FF721	A64162F151A8C1CB 0F57062401DC680B	824408631432E09B 5E696A9FDA56D6BF	392893C22E75856A 7A7C9EB7BC813248
t=39:	B80591F6FBFADCE 00F4407C0F37237E	922537ABAD1E95A1 4F4C193D435FF721	A64162F151A8C1CB 0F57062401DC680B	392893C22E75856A 7A7C9EB7BC813248
t=40:	08F151F4B8D0FA2E EC8B96FE402094CD	B80591F6FBFADCE 00F4407C0F37237E	A64162F151A8C1CB 0F57062401DC680B	392893C22E75856A 7A7C9EB7BC813248
t=41:	12B5FCC2B68F65C0	08F151F4B8D0FA2E	B80591F6FBFADCE	922537ABAD1E95A1

	D688101DFD24A148	EC8B96FE402094CD	00F4407C0F37237E	4F4C193D435FF721
t=42:	A71BF5BD64289948	12B5FCC2B68F65C0	08F151F4B8D0FA2E	B80591F6FBFADCE
	E052BFB7A6945939	D688101DFD24A148	EC8B96FE402094CD	00F4407C0F37237E
t=43:	890C2CD670C4AEA3	A71BF5BD64289948	12B5FCC2B68F65C0	08F151F4B8D0FA2E
	DD13E4EDEEFF00E7	E052BFB7A6945939	D688101DFD24A148	EC8B96FE402094CD
t=44:	CA61990B43297FFC	890C2CD670C4AEA3	A71BF5BD64289948	12B5FCC2B68F65C0
	139AA55C51D9EE5F	DD13E4EDEEFF00E7	E052BFB7A6945939	D688101DFD24A148
t=45:	7196E8FA538BA4BF	CA61990B43297FFC	890C2CD670C4AEA3	A71BF5BD64289948
	046735513CDD14D3	139AA55C51D9EE5F	DD13E4EDEEFF00E7	E052BFB7A6945939
t=46:	1F0720944DBEB6A4	7196E8FA538BA4BF	CA61990B43297FFC	890C2CD670C4AEA3
	A41EB7E5A27588E3	046735513CDD14D3	139AA55C51D9EE5F	DD13E4EDEEFF00E7
t=47:	D6D4F8608B8AB199	1F0720944DBEB6A4	7196E8FA538BA4BF	CA61990B43297FFC
	24B9C216F915DA60	A41EB7E5A27588E3	046735513CDD14D3	139AA55C51D9EE5F
t=48:	88761EB67845978E	D6D4F8608B8AB199	1F0720944DBEB6A4	7196E8FA538BA4BF
	9FE22E39448D50ED	24B9C216F915DA60	A41EB7E5A27588E3	046735513CDD14D3
t=49:	7D40E6BE47D85702	88761EB67845978E	D6D4F8608B8AB199	1F0720944DBEB6A4
	D9C900E01968C33E	9FE22E39448D50ED	24B9C216F915DA60	A41EB7E5A27588E3
t=50:	7D0D988DF5768598	7D40E6BE47D85702	88761EB67845978E	D6D4F8608B8AB199
	2EC2E522A7C7D12C	D9C900E01968C33E	9FE22E39448D50ED	24B9C216F915DA60
t=51:	48A8B60575B37F31	7D0D988DF5768598	7D40E6BE47D85702	88761EB67845978E
	7059F9BC8C88A373	2EC2E522A7C7D12C	D9C900E01968C33E	9FE22E39448D50ED
t=52:	6BC425AF294BBF79	48A8B60575B37F31	7D0D988DF5768598	7D40E6BE47D85702
	6A8143B1716EE33D	7059F9BC8C88A373	2EC2E522A7C7D12C	D9C900E01968C33E
t=53:	307A456158EE8849	6BC425AF294BBF79	48A8B60575B37F31	7D0D988DF5768598
	4372E85C16EE4440	6A8143B1716EE33D	7059F9BC8C88A373	2EC2E522A7C7D12C
t=54:	AF36382C8FD716BE	307A456158EE8849	6BC425AF294BBF79	48A8B60575B37F31
	A8F8B0033187A916	4372E85C16EE4440	6A8143B1716EE33D	7059F9BC8C88A373
t=55:	810EBEE951C64CA1	AF36382C8FD716BE	307A456158EE8849	6BC425AF294BBF79
	16A64F5997B9CCA6	A8F8B0033187A916	4372E85C16EE4440	6A8143B1716EE33D
t=56:	2DD7659F1B4D13CD	810EBEE951C64CA1	AF36382C8FD716BE	307A456158EE8849
	5DA6793BB7286A4B	16A64F5997B9CCA6	A8F8B0033187A916	4372E85C16EE4440
t=57:	5AC712ACFF4B98BE	2DD7659F1B4D13CD	810EBEE951C64CA1	AF36382C8FD716BE
	91F6395B301ADBFD	5DA6793BB7286A4B	16A64F5997B9CCA6	A8F8B0033187A916
t=58:	C1AF358833CB03C0	5AC712ACFF4B98BE	2DD7659F1B4D13CD	810EBEE951C64CA1
	D4883C0C21DDA190	91F6395B301ADBFD	5DA6793BB7286A4B	16A64F5997B9CCA6
t=59:	88A306074D388C7D	C1AF358833CB03C0	5AC712ACFF4B98BE	2DD7659F1B4D13CD
	9FC52468B897F9C8	D4883C0C21DDA190	91F6395B301ADBFD	5DA6793BB7286A4B
t=60:	F11BFD0CF67D3040	88A306074D388C7D	C1AF358833CB03C0	5AC712ACFF4B98BE
	47EFB6407F74D318	9FC52468B897F9C8	D4883C0C21DDA190	91F6395B301ADBFD
t=61:	1F065E7828ED4E1B	F11BFD0CF67D3040	88A306074D388C7D	C1AF358833CB03C0
	7481899904A4CE23	47EFB6407F74D318	9FC52468B897F9C8	D4883C0C21DDA190
t=62:	AEBDE39F2BC42EC1	1F065E7828ED4E1B	F11BFD0CF67D3040	88A306074D388C7D
	62AB526FF177A988	7481899904A4CE23	47EFB6407F74D318	9FC52468B897F9C8
t=63:	D35A94706E3E5DF2	AEBDE39F2BC42EC1	1F065E7828ED4E1B	F11BFD0CF67D3040
	53F92B648D5D815C	62AB526FF177A988	7481899904A4CE23	47EFB6407F74D318
t=64:	D72D727C53E09AB9	D35A94706E3E5DF2	AEBDE39F2BC42EC1	1F065E7828ED4E1B
	10746426BA9824F4	53F92B648D5D815C	62AB526FF177A988	7481899904A4CE23
t=65:	3A7235E5A4051D94	D72D727C53E09AB9	D35A94706E3E5DF2	AEBDE39F2BC42EC1
	AFE455DAEC5C2B00	10746426BA9824F4	53F92B648D5D815C	62AB526FF177A988
t=66:	F7F510FE73EF7E76	3A7235E5A4051D94	D72D727C53E09AB9	D35A94706E3E5DF2
	F1202C0BB7C4583F	AFE455DAEC5C2B00	10746426BA9824F4	53F92B648D5D815C
t=67:	23C2ACFB393523E9	F7F510FE73EF7E76	3A7235E5A4051D94	D72D727C53E09AB9
	A0BC2A61044AC12E	F1202C0BB7C4583F	AFE455DAEC5C2B00	10746426BA9824F4
t=68:	0307D241A1ED7121	23C2ACFB393523E9	F7F510FE73EF7E76	3A7235E5A4051D94
	FAD5F38F1E0AEA12	A0BC2A61044AC12E	F1202C0BB7C4583F	AFE455DAEC5C2B00
t=69:	191814D82F0A16FB	0307D241A1ED7121	23C2ACFB393523E9	F7F510FE73EF7E76
	39D325086E66E200	FAD5F38F1E0AEA12	A0BC2A61044AC12E	F1202C0BB7C4583F
t=70:	0A1ED41B6DA18C01	191814D82F0A16FB	0307D241A1ED7121	23C2ACFB393523E9

	B3D3521E166E5DF1	39D325086E66E200	FAD5F38F1E0AEA12	A0BC2A61044AC12E
t=71:	8A3F07DB93F6C827	0A1ED41B6DA18C01	191814D82F0A16FB	0307D241A1ED7121
	6B370074BE040ED7	B3D3521E166E5DF1	39D325086E66E200	FAD5F38F1E0AEA12
t=72:	002744D87EF80D28	8A3F07DB93F6C827	0A1ED41B6DA18C01	191814D82F0A16FB
	8C5A245DE2D72FE6	6B370074BE040ED7	B3D3521E166E5DF1	39D325086E66E200
t=73:	778DC7880A4A2AA0	002744D87EF80D28	8A3F07DB93F6C827	0A1ED41B6DA18C01
	45A375B466E5E342	8C5A245DE2D72FE6	6B370074BE040ED7	B3D3521E166E5DF1
t=74:	A3F11DE5EDE05B11	778DC7880A4A2AA0	002744D87EF80D28	8A3F07DB93F6C827
	F5BBF52F1AB7CC05	45A375B466E5E342	8C5A245DE2D72FE6	6B370074BE040ED7
t=75:	629C8AE6ECD8AF4B	A3F11DE5EDE05B11	778DC7880A4A2AA0	002744D87EF80D28
	5A8FE5919D3CF136	F5BBF52F1AB7CC05	45A375B466E5E342	8C5A245DE2D72FE6
t=76:	C9A8C1E2D063CE94	629C8AE6ECD8AF4B	A3F11DE5EDE05B11	778DC7880A4A2AA0
	AACD089BFAE8FAF9	5A8FE5919D3CF136	F5BBF52F1AB7CC05	45A375B466E5E342
t=77:	C517CBA6A09BB26A	C9A8C1E2D063CE94	629C8AE6ECD8AF4B	A3F11DE5EDE05B11
	E1682BD33C8F8E23	AACD089BFAE8FAF9	5A8FE5919D3CF136	F5BBF52F1AB7CC05
t=78:	11E3570E06E3B74E	C517CBA6A09BB26A	C9A8C1E2D063CE94	629C8AE6ECD8AF4B
	075AABBAD34FD01	E1682BD33C8F8E23	AACD089BFAE8FAF9	5A8FE5919D3CF136
t=79:	D90F1B1237B3A561	11E3570E06E3B74E	C517CBA6A09BB26A	C9A8C1E2D063CE94
	867983F69D3A3AD1	075AABBAD34FD01	E1682BD33C8F8E23	AACD089BFAE8FAF9

H[0] = 6A09E667F3BCC908 + D90F1B1337B3A561 = 4319017A2B706E69  
H[1] = BB67AE8584CAA73B + 11E3570E06E3B74E = CD4B05938BAE5E89  
H[2] = 3C6EF372FE94F82B + C517CBA7A09BB26A = 0186BF199F30AA95  
H[3] = A54FF53A5F1D36F1 + C9A8C1E3D063CE94 = 6EF8B71D2F810585  
H[4] = 510E527FADE682D1 + 867983F79D3A3AD1 = D787D6764B20BDA2  
H[5] = 9B05688C2B3E6C1F + 075AABBAD34FD01 = A260144709736920  
H[6] = 1F83D9ABFB41BD6B + E1682BD43C8F8E23 = 00EC057F37D14B8E  
H[7] = 5BE0CD19137E2179 + AACD089C3C8F8E23 = 06ADD5B50E671C72

=====  
Block Contents:

W[0] = 0000000000000000  
W[1] = 0000000000000000  
W[2] = 0000000000000000  
W[3] = 0000000000000000  
W[4] = 0000000000000000  
W[5] = 0000000000000000  
W[6] = 0000000000000000  
W[7] = 0000000000000000  
W[8] = 0000000000000000  
W[9] = 0000000000000000  
W[10] = 0000000000000000  
W[11] = 0000000000000000  
W[12] = 0000000000000000  
W[13] = 0000000000000000  
W[14] = 0000000000000000  
W[15] = 0000000000000380

	A/E	B/F	C/G	D/H
t= 0:	88FDB92BDFB187E8	4319017A2B706E69	CD4B05938BAE5E89	0186BF199F30AA95
	1D5F4D5AD031B8E6	D787D6764B20BDA2	A260144709736920	00EC057F37D14B8E
t= 1:	6EB90718369C5CD7	88FDB92BDFB187E8	4319017A2B706E69	CD4B05938BAE5E89
	4B9B4877D987B0FE	1D5F4D5AD031B8E6	D787D6764B20BDA2	A260144709736920
t= 2:	C83451F2335D5144	6EB90718369C5CD7	88FDB92BDFB187E8	4319017A2B706E69
	D6B67350E0781E99	4B9B4877D987B0FE	1D5F4D5AD031B8E6	D787D6764B20BDA2
t= 3:	28EC1DEB2A9EE6E3	C83451F2335D5144	6EB90718369C5CD7	88FDB92BDFB187E8
	25E3136BE5999B8C	D6B67350E0781E99	4B9B4877D987B0FE	1D5F4D5AD031B8E6

t= 4: 806ABD86C0479E5B 28EC1DEB2A9EE6E3 C83451F2335D5144 6EB90718369C5CD7  
1B8F7670EAB1CF89 25E3136BE5999B8C D6B67350E0781E99 4B9B4877D987B0FE  
t= 5: 234788F8A54AED38 806ABD86C0479E5B 28EC1DEB2A9EE6E3 C83451F2335D5144  
4FABE51C67D5D156 1B8F7670EAB1CF89 25E3136BE5999B8C D6B67350E0781E99  
t= 6: 01264F18257B5E2C 234788F8A54AED38 806ABD86C0479E5B 28EC1DEB2A9EE6E3  
1C3506096B99DE50 4FABE51C67D5D156 1B8F7670EAB1CF89 25E3136BE5999B8C  
t= 7: 5B14F38104DDE991 01264F18257B5E2C 234788F8A54AED38 806ABD86C0479E5B  
13F8BFDC4001C362 1C3506096B99DE50 4FABE51C67D5D156 1B8F7670EAB1CF89  
t= 8: F522574A41B2AAC6 5B14F38104DDE991 01264F18257B5E2C 234788F8A54AED38  
63A5F09617622ED2 13F8BFDC4001C362 1C3506096B99DE50 4FABE51C67D5D156  
t= 9: 6EC258B855AFAE5A F522574A41B2AAC6 5B14F38104DDE991 01264F18257B5E2C  
211E271D92770B36 63A5F09617622ED2 13F8BFDC4001C362 1C3506096B99DE50  
t=10: 9364214BA48B416C 6EC258B855AFAE5A F522574A41B2AAC6 5B14F38104DDE991  
D64DCB6EC0FE5BAC 211E271D92770B36 63A5F09617622ED2 13F8BFDC4001C362  
t=11: 082BA62147ECBBD5 9364214BA48B416C 6EC258B855AFAE5A F522574A41B2AAC6  
34FE78473B61266E D64DCB6EC0FE5BAC 211E271D92770B36 63A5F09617622ED2  
t=12: 5790F6BA82BBA809 082BA62147ECBBD5 9364214BA48B416C 6EC258B855AFAE5A  
D491E309141DCAA3 34FE78473B61266E D64DCB6EC0FE5BAC 211E271D92770B36  
t=13: A6B8AEFD086D33CE 5790F6BA82BBA809 082BA62147ECBBD5 9364214BA48B416C  
044943C2992CC0F0 D491E309141DCAA3 34FE78473B61266E D64DCB6EC0FE5BAC  
t=14: BF2324A9A363ABE7 A6B8AEFD086D33CE 5790F6BA82BBA809 082BA62147ECBBD5  
0CF5F4BDE5977C54 044943C2992CC0F0 D491E309141DCAA3 34FE78473B61266E  
t=15: 00E8E32076A61AFF BF2324A9A363ABE7 A6B8AEFD086D33CE 5790F6BA82BBA809  
43BF4EB269A2650C 0CF5F4BDE5977C54 044943C2992CC0F0 D491E309141DCAA3  
t=16: F0376DFF66FFF4A7 00E8E32076A61AFF BF2324A9A363ABE7 A6B8AEFD086D33CE  
69FA5896969E85B8 43BF4EB269A2650C 0CF5F4BDE5977C54 044943C2992CC0F0  
t=17: 2FAD194272CDA857 F0376DFF66FFF4A7 00E8E32076A61AFF BF2324A9A363ABE7  
DDB519D663B7B6EC 69FA5896969E85B8 43BF4EB269A2650C 0CF5F4BDE5977C54  
t=18: 9AE56936E95325AC 2FAD194272CDA857 F0376DFF66FFF4A7 00E8E32076A61AFF  
04CEB04676619057 DDB519D663B7B6EC 69FA5896969E85B8 43BF4EB269A2650C  
t=19: D94CCB853F53433B 9AE56936E95325AC 2FAD194272CDA857 F0376DFF66FFF4A7  
DCDC0F45813FB5A2 04CEB04676619057 DDB519D663B7B6EC 69FA5896969E85B8  
t=20: 837F8075D2945995 D94CCB853F53433B 9AE56936E95325AC 2FAD194272CDA857  
272B5F79A91419D8 DCDC0F45813FB5A2 04CEB04676619057 DDB519D663B7B6EC  
t=21: 786BDE689F7AA62D 837F8075D2945995 D94CCB853F53433B 9AE56936E95325AC  
566586E69AD3F487 272B5F79A91419D8 DCDC0F45813FB5A2 04CEB04676619057  
t=22: 276457F01812AA6F 786BDE689F7AA62D 837F8075D2945995 D94CCB853F53433B  
E78FB8B0DFBBC62F 566586E69AD3F487 272B5F79A91419D8 DCDC0F45813FB5A2  
t=23: 0DE519F5D6C2C298 276457F01812AA6F 786BDE689F7AA62D 837F8075D2945995  
5CA3E5CD1A30B954 E78FB8B0DFBBC62F 566586E69AD3F487 272B5F79A91419D8  
t=24: 54314DFF825E2B22 0DE519F5D6C2C298 276457F01812AA6F 786BDE689F7AA62D  
B81A51E0C96CCF77 5CA3E5CD1A30B954 E78FB8B0DFBBC62F 566586E69AD3F487  
t=25: 5D3F98DD7B29C363 54314DFF825E2B22 0DE519F5D6C2C298 276457F01812AA6F  
95D49494F5A0D14A B81A51E0C96CCF77 5CA3E5CD1A30B954 E78FB8B0DFBBC62F  
t=26: 5E9DA426AA7D4A58 5D3F98DD7B29C363 54314DFF825E2B22 0DE519F5D6C2C298  
D22CCAD2E391CD4 95D49494F5A0D14A B81A51E0C96CCF77 5CA3E5CD1A30B954  
t=27: 3B62DD973298EA43 5E9DA426AA7D4A58 5D3F98DD7B29C363 54314DFF825E2B22  
ACEB5D06101E514E D22CCAD2E391CD4 95D49494F5A0D14A B81A51E0C96CCF77  
t=28: FD258FF809B2253D 3B62DD973298EA43 5E9DA426AA7D4A58 5D3F98DD7B29C363  
26C991E85352DA6F ACEB5D06101E514E D22CCAD2E391CD4 95D49494F5A0D14A  
t=29: B462A20846AF417D FD258FF809B2253D 3B62DD973298EA43 5E9DA426AA7D4A58  
291EEE54C034C326 26C991E85352DA6F ACEB5D06101E514E D22CCAD2E391CD4  
t=30: D5471E3DC7171224 B462A20846AF417D FD258FF809B2253D 3B62DD973298EA43  
0AAF99C59E7FADBD 291EEE54C034C326 26C991E85352DA6F ACEB5D06101E514E  
t=31: 9ACE856BA1290E6E D5471E3DC7171224 B462A20846AF417D FD258FF809B2253D  
658F0BEA63804D05 0AAF99C59E7FADBD 291EEE54C034C326 26C991E85352DA6F  
t=32: 80A0D154506B37C4 9ACE856BA1290E6E D5471E3DC7171224 B462A20846AF417D  
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t=33: FB90A8A76DEA1BFE 80A0D154506B37C4 9ACE856BA1290E6E D5471E3DC7171224  
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t=34: F517B690D940A294 FB90A8A76DEA1BFE 80A0D154506B37C4 9ACE856BA1290E6E  
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t=35: B70883992932880D F517B690D940A294 FB90A8A76DEA1BFE 80A0D154506B37C4  
DC5DD7C12B1CB6E3 E4DD663F44D313BC 65234D5B5049E665 BBE6E3B3BB7FEFAB  
t=36: B2A2BE77B0FCF3BF B70883992932880D F517B690D940A294 FB90A8A76DEA1BFE  
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t=37: 8575839B0F08472B B2A2BE77B0FCF3BF B70883992932880D F517B690D940A294  
BD7176BD099BB2F2 50FCA57291E19874 DC5DD7C12B1CB6E3 E4DD663F44D313BC  
t=38: 4405D2765DE0ADFC 8575839B0F08472B B2A2BE77B0FCF3BF B70883992932880D  
7CA4916F2CD8DB10 BD7176BD099BB2F2 50FCA57291E19874 DC5DD7C12B1CB6E3  
t=39: EEC6FCA5AA657661 4405D2765DE0ADFC 8575839B0F08472B B2A2BE77B0FCF3BF  
7BE0B7E70BDABE53 7CA4916F2CD8DB10 BD7176BD099BB2F2 50FCA57291E19874  
t=40: BB3FCD7585B59E32 EEC6FCA5AA657661 4405D2765DE0ADFC 8575839B0F08472B  
2201C7CBD34E31FE 7BE0B7E70BDABE53 7CA4916F2CD8DB10 BD7176BD099BB2F2  
t=41: 0E109EFC47927341 BB3FCD7585B59E32 EEC6FCA5AA657661 4405D2765DE0ADFC  
D43E5686506FA05D 2201C7CBD34E31FE 7BE0B7E70BDABE53 7CA4916F2CD8DB10  
t=42: 55C0DBA83BCDC6E0 0E109EFC47927341 BB3FCD7585B59E32 4405D2765DE0ADFC  
5B634502F1671535 D43E5686506FA05D 2201C7CBD34E31FE 7BE0B7E70BDABE53  
t=43: F5756F847BFAEF67 55C0DBA83BCDC6E0 0E109EFC47927341 BB3FCD7585B59E32  
E2D307FD94F4818A 5B634502F1671535 D43E5686506FA05D 2201C7CBD34E31FE  
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t=46: 985BA373680B8E94 A7DCAFFDBEFB9D4A F1438C9CF271C06E F5756F847BFAEF67  
7D4C0ABC676B1A8B 9E46E9F915099C34 AD8AC1ED966B2DC6 E2D307FD94F4818A  
t=47: 807F45784852303F 985BA373680B8E94 A7DCAFFDBEFB9D4A F1438C9CF271C06E  
082EE70D3F352AAC 7D4C0ABC676B1A8B 9E46E9F915099C34 AD8AC1ED966B2DC6  
t=48: D9C523173B1A1E05 807F45784852303F 985BA373680B8E94 A7DCAFFDBEFB9D4A  
E301DCA32C44CA05 082EE70D3F352AAC 7D4C0ABC676B1A8B 9E46E9F915099C34  
t=49: B6DF019CA515CAFB D9C523173B1A1E05 807F45784852303F 985BA373680B8E94  
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t=50: 427A642921B2E645 B6DF019CA515CAFB D9C523173B1A1E05 807F45784852303F  
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t=51: 7AAB58DBE1B9DF7B 427A642921B2E645 B6DF019CA515CAFB D9C523173B1A1E05  
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t=52: 974DDD552AEC16CE 7AAB58DBE1B9DF7B 427A642921B2E645 B6DF019CA515CAFB  
A9E6CBFB416A591F 2749C52D0B3D1225 08A30FEFE981F2EC 754B3A461A665640  
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t=54: 901F632579EE1EEE 55E0B99D4404F6CA 974DDD552AEC16CE 7AAB58DBE1B9DF7B  
4EE99476DB1BB7A9 6C24AD697B41B1B9 A9E6CBFB416A591F 2749C52D0B3D1225  
t=55: F90DB9F292A60463 901F632579EE1EEE 55E0B99D4404F6CA 974DDD552AEC16CE  
5401644992A1F8B8 4EE99476DB1BB7A9 6C24AD697B41B1B9 A9E6CBFB416A591F  
t=56: 9B906A7DF1007357 F90DB9F292A60463 901F632579EE1EEE 55E0B99D4404F6CA  
F5E402EE21DB8915 5401644992A1F8B8 4EE99476DB1BB7A9 6C24AD697B41B1B9  
t=57: 71A0A998FB48C0FC 9B906A7DF1007357 F90DB9F292A60463 901F632579EE1EEE  
96BECE755CD203CB F5E402EE21DB8915 5401644992A1F8B8 4EE99476DB1BB7A9  
t=58: C25E798E50752535 71A0A998FB48C0FC 9B906A7DF1007357 F90DB9F292A60463  
9D548440D8E110F2 96BECE755CD203CB F5E402EE21DB8915 5401644992A1F8B8  
t=59: 1CE4F2591812E6AE C25E798E50752535 71A0A998FB48C0FC 9B906A7DF1007357  
B27252537A83CF27 9D548440D8E110F2 96BECE755CD203CB F5E402EE21DB8915  
t=60: C1700E250DC6FFED 1CE4F2591812E6AE C25E798E50752535 71A0A998FB48C0FC  
970088839126BDA5 B27252537A83CF27 9D548440D8E110F2 96BECE755CD203CB  
t=61: F8E6924412FD0C64 C1700E250DC6FFED 1CE4F2591812E6AE C25E798E50752535  
D50CF4F73910E3EE 970088839126BDA5 B27252537A83CF27 9D548440D8E110F2

t=62:	D53E0A39EEE47528 1B6D7234ACE15D7D	F8E6924412FD0C64 D50CF4F73910E3EE	C1700E250DC6FFED 970088839126BDA5	1CE4F2591812E6AE B27252537A83CF27
t=63:	3960545AB926C0D5 9EABB5618B4FCD13	D53E0A39EEE47528 1B6D7234ACE15D7D	F8E6924412FD0C64 D50CF4F73910E3EE	C1700E250DC6FFED 970088839126BDA5
t=64:	B2C164D71ABB92FE F1736FBBFB6EBE72	3960545AB926C0D5 9EABB5618B4FCD13	D53E0A39EEE47528 1B6D7234ACE15D7D	F8E6924412FD0C64 D50CF4F73910E3EE
t=65:	4D979E985B067E75 D1FB300F35992350	B2C164D71ABB92FE F1736FBBFB6EBE72	3960545AB926C0D5 9EABB5618B4FCD13	D53E0A39EEE47528 1B6D7234ACE15D7D
t=66:	59D0238CE137ABD7 5F3C64B7546E2CEC	4D979E985B067E75 D1FB300F35992350	B2C164D71ABB92FE F1736FBBFB6EBE72	3960545AB926C0D5 9EABB5618B4FCD13
t=67:	BF8D9453B9876B0A 6C27893A31B0E07E	59D0238CE137ABD7 5F3C64B7546E2CEC	4D979E985B067E75 D1FB300F35992350	B2C164D71ABB92FE F1736FBBFB6EBE72
t=68:	C45DD4A2D2FEA059 48253E21B26D8CF9	BF8D9453B9876B0A 6C27893A31B0E07E	59D0238CE137ABD7 5F3C64B7546E2CEC	4D979E985B067E75 D1FB300F35992350
t=69:	E08471946C17B0B6 714E2ADF4E23FF24	C45DD4A2D2FEA059 48253E21B26D8CF9	BF8D9453B9876B0A 6C27893A31B0E07E	59D0238CE137ABD7 5F3C64B7546E2CEC
t=70:	B4838C1C28FEE7BC 371F12F333F7E5B9	E08471946C17B0B6 714E2ADF4E23FF24	C45DD4A2D2FEA059 48253E21B26D8CF9	BF8D9453B9876B0A 6C27893A31B0E07E
t=71:	851CF60A77F6E6D1 A2A475DEAC0E8B42	B4838C1C28FEE7BC 371F12F333F7E5B9	E08471946C17B0B6 714E2ADF4E23FF24	C45DD4A2D2FEA059 48253E21B26D8CF9
t=72:	F53D23C50249AF2D 1E99CAE9D4CF0409	851CF60A77F6E6D1 A2A475DEAC0E8B42	371F12F333F7E5B9 714E2ADF4E23FF24	48253E21B26D8CF9 714E2ADF4E23FF24
t=73:	B81E85D427045550 F5794711FAA60F63	F53D23C50249AF2D 1E99CAE9D4CF0409	851CF60A77F6E6D1 A2A475DEAC0E8B42	371F12F333F7E5B9 48253E21B26D8CF9
t=74:	AE70C7D11EA84A83 DC0D633411C289B2	B81E85D427045550 F5794711FAA60F63	F53D23C50249AF2D 1E99CAE9D4CF0409	48253E21B26D8CF9 714E2ADF4E23FF24
t=75:	5C54592E13C76135 1620DD5479E94B9B	AE70C7D11EA84A83 DC0D633411C289B2	B81E85D427045550 F5794711FAA60F63	714E2ADF4E23FF24 48253E21B26D8CF9
t=76:	03A0F79087078A93 57E90FA678E4CC97	5C54592E13C76135 1620DD5479E94B9B	AE70C7D11EA84A83 DC0D633411C289B2	48253E21B26D8CF9 714E2ADF4E23FF24
t=77:	8DF0BAAD4C6ED50C C6E7246F7F0BDAC6	03A0F79087078A93 57E90FA678E4CC97	5C54592E13C76135 1620DD5479E94B9B	714E2ADF4E23FF24 48253E21B26D8CF9
t=78:	BFA9F194894DB5B6 90BB8597BB41DA1A	8DF0BAAD4C6ED50C C6E7246F7F0BDAC6	03A0F79087078A93 57E90FA678E4CC97	48253E21B26D8CF9 714E2ADF4E23FF24
t=79:	4B7C99FBAF72A571 78955227FDE03A42	BFA9F194894DB5B6 90BB8597BB41DA1A	8DF0BAAD4C6ED50C C6E7246F7F0BDAC6	714E2ADF4E23FF24 48253E21B26D8CF9

H[0] = 4319017A2B706E69 + 4B7C99FBAF72A571 = 8E959B75DAE313DA  
H[1] = CD4B05938BAE5E89 + BFA9F195894DB5B6 = 8CF4F72814FC143F  
H[2] = 0186BF199F30AA95 + 8DF0BAAD4C6ED50C = 8F7779C6EB9F7FA1  
H[3] = 6EF8B71D2F810585 + 03A0F79087078A93 = 7299AEADB6889018  
H[4] = D787D6764B20BDA2 + 78955228FDE03A42 = 501D289E4900F7E4  
H[5] = A260144709736920 + 90BB8597BB41DA1A = 331B99DEC4B5433A  
H[6] = 00EC057F37D14B8E + C6E7246F7F0BDAC6 = C7D329EEB6DD2654  
H[7] = 06ADD5B50E671C72 + 57E90FA67F0BDAC6 = 5E96E55B874BE909

-----  
Message Digest is

8E959B75 DAE313DA 8CF4F728 14FC143F  
8F7779C6 EB9F7FA1 7299AEAD B6889018 501D289E 4900F7E4  
331B99DE C4B5433A C7D329EE B6DD2654 5E96E55B 874BE909

#####

Secure Hash Algorithm  
Message Digest Length = 512/224

#####

One Block Message Sample

Input Message: "abc"

Initial hash value:

H[0] = 8C3D37C819544DA2  
H[1] = 73E1996689DCD4D6  
H[2] = 1DFAB7AE32FF9C82  
H[3] = 679DD514582F9FCF  
H[4] = 0F6D2B697BD44DA8  
H[5] = 77E36F7304C48942  
H[6] = 3F9D85A86A1D36C8  
H[7] = 1112E6AD91D692A1

Block Contents:

W[ 0] = 6162638000000000  
W[ 1] = 0000000000000000  
W[ 2] = 0000000000000000  
W[ 3] = 0000000000000000  
W[ 4] = 0000000000000000  
W[ 5] = 0000000000000000  
W[ 6] = 0000000000000000  
W[ 7] = 0000000000000000  
W[ 8] = 0000000000000000  
W[ 9] = 0000000000000000  
W[10] = 0000000000000000  
W[11] = 0000000000000000  
W[12] = 0000000000000000  
W[13] = 0000000000000000  
W[14] = 0000000000000000  
W[15] = 0000000000000018

	A/E	B/F	C/G	D/H
t= 0:	9F8617B9DCE5AAD2 E606D304F5742303	8C3D37C819544DA2 0F6D2B697BD44DA8	73E1996689DCD4D6 77E36F7304C48942	1DFAB7AE32FF9C82 3F9D85A86A1D36C8
t= 1:	39EEF9EA0D97D0E7 ED6A8CE6AC02AE3B	9F8617B9DCE5AAD2 E606D304F5742303	8C3D37C819544DA2 0F6D2B697BD44DA8	73E1996689DCD4D6 77E36F7304C48942
t= 2:	9F956BCC32F99C4B E7C4F75F0018AB16	39EEF9EA0D97D0E7 ED6A8CE6AC02AE3B	9F8617B9DCE5AAD2 E606D304F5742303	8C3D37C819544DA2 0F6D2B697BD44DA8
t= 3:	624C8289051D5B40 93C0EDD577EF4338	9F956BCC32F99C4B E7C4F75F0018AB16	39EEF9EA0D97D0E7 ED6A8CE6AC02AE3B	9F8617B9DCE5AAD2 E606D304F5742303
t= 4:	8445DB53436C52F8 E5662EE45E149450	624C8289051D5B40 93C0EDD577EF4338	9F956BCC32F99C4B E7C4F75F0018AB16	39EEF9EA0D97D0E7 ED6A8CE6AC02AE3B
t= 5:	9873F29F683128C8 0B843D2CDE075711	8445DB53436C52F8 E5662EE45E149450	624C8289051D5B40 93C0EDD577EF4338	9F956BCC32F99C4B E7C4F75F0018AB16
t= 6:	134D4DD913EC29E7 CACE421FD59538B6	9873F29F683128C8 0B843D2CDE075711	8445DB53436C52F8 E5662EE45E149450	624C8289051D5B40 93C0EDD577EF4338
t= 7:	6A01F4E5758D5A14 73EA4F37F91D77F0	134D4DD913EC29E7 CACE421FD59538B6	9873F29F683128C8 0B843D2CDE075711	8445DB53436C52F8 E5662EE45E149450
t= 8:	0B9D8BDA33530FA3 A64384D872C70950	6A01F4E5758D5A14 73EA4F37F91D77F0	134D4DD913EC29E7 CACE421FD59538B6	9873F29F683128C8 0B843D2CDE075711
t= 9:	2C961F00E387DF1D AC79A3FFDAC317FC	0B9D8BDA33530FA3 A64384D872C70950	6A01F4E5758D5A14 73EA4F37F91D77F0	134D4DD913EC29E7 CACE421FD59538B6
t=10:	78953995DD54A904 5FF1DE02C59C17E6	2C961F00E387DF1D AC79A3FFDAC317FC	0B9D8BDA33530FA3 A64384D872C70950	6A01F4E5758D5A14 73EA4F37F91D77F0
t=11:	82A6A4ED5164390E 3A6E6AED341206D2	78953995DD54A904 5FF1DE02C59C17E6	2C961F00E387DF1D AC79A3FFDAC317FC	0B9D8BDA33530FA3 A64384D872C70950
t=12:	6528AFE0F531B8D9	82A6A4ED5164390E	78953995DD54A904	2C961F00E387DF1D

t=13: AF77A75BBF7964C9 3A6E6AED341206D2 5FF1DE02C59C17E6 AC79A3FFDACC317FC  
206C69B0295CAE2F 6528AFE0F531B8D9 82A6A4ED5164390E 78953995DD54A904  
3CA059F97E654F98 207F7A5BBF7964C9 3A6E6AED341206D2 5FF1DE02C59C17E6  
t=14: DB71F51BE96E76D1 AF77A75BBF7964C9 6528AFE0F531B8D9 82A6A4ED5164390E  
340B10ABC4B10E09 3CA059F97E654F98 AF77A75BBF7964C9 3A6E6AED341206D2  
t=15: A69AF3FA50F71091 DB71F51BE96E76D1 206C69B0295CAE2F 6528AFE0F531B8D9  
6C6A7EF25668BBB4 340B10ABC4B10E09 3CA059F97E654F98 AF77A75BBF7964C9  
t=16: F57D3A111596E3F7 A69AF3FA50F71091 DB71F51BE96E76D1 206C69B0295CAE2F  
483FD5187E05AF83 6C6A7EF25668BBB4 340B10ABC4B10E09 3CA059F97E654F98  
t=17: 37F983BB8545A2F2 F57D3A111596E3F7 A69AF3FA50F71091 DB71F51BE96E76D1  
22CB500B1745C86F 483FD5187E05AF83 6C6A7EF25668BBB4 340B10ABC4B10E09  
t=18: 6AB7291DC27CE806 37F983BB8545A2F2 F57D3A111596E3F7 A69AF3FA50F71091  
CC2D9DA4800A1393 22CB500B1745C86F 483FD5187E05AF83 6C6A7EF25668BBB4  
t=19: 8E50B25D469759C2 6AB7291DC27CE806 37F983BB8545A2F2 F57D3A111596E3F7  
50193786D52F5194 CC2D9DA4800A1393 22CB500B1745C86F 483FD5187E05AF83  
t=20: 3041190F76AD53DF 8E50B25D469759C2 6AB7291DC27CE806 37F983BB8545A2F2  
746F4B17026AA6ED 50193786D52F5194 CC2D9DA4800A1393 22CB500B1745C86F  
t=21: D37D93454B59A769 3041190F76AD53DF 8E50B25D469759C2 6AB7291DC27CE806  
3792AA4013809C0F 746F4B17026AA6ED 50193786D52F5194 CC2D9DA4800A1393  
t=22: 28E37AB968D3F5E5 D37D93454B59A769 3041190F76AD53DF 8E50B25D469759C2  
936E64805412DE7D 28E37AB968D3F5E5 746F4B17026AA6ED 50193786D52F5194  
t=23: 05799053E5D280FD D37D93454B59A769 3041190F76AD53DF 8E50B25D469759C2  
BD8F22E3B3312F05 936E64805412DE7D 3792AA4013809C0F 746F4B17026AA6ED  
t=24: A24BC13A743FCBCE 05799053E5D280FD D37D93454B59A769 3041190F76AD53DF  
CD7C3D09944BE7B6 BD8F22E3B3312F05 936E64805412DE7D 3792AA4013809C0F  
t=25: 1EABC1C5C3A2CDEA 27A2534198BE3EFB 28E37AB968D3F5E5 936E64805412DE7D  
27A2534198BE3EFB CD7C3D09944BE7B6 BD8F22E3B3312F05 05799053E5D280FD  
t=26: 471543A4179B22FE 1EABC1C5C3A2CDEA A24BC13A743FCBCE 05799053E5D280FD  
A849D4C8E1909347 27A2534198BE3EFB CD7C3D09944BE7B6 BD8F22E3B3312F05  
t=27: 887298E1C82038F7 471543A4179B22FE 1EABC1C5C3A2CDEA A24BC13A743FCBCE  
536496733A17ADD7 A849D4C8E1909347 27A2534198BE3EFB CD7C3D09944BE7B6  
t=28: 42FE965258B7E0EC 887298E1C82038F7 471543A4179B22FE 1EABC1C5C3A2CDEA  
A37AD4727F2FB6A7 536496733A17ADD7 A849D4C8E1909347 27A2534198BE3EFB  
t=29: B251E1018FD0C473 42FE965258B7E0EC 887298E1C82038F7 471543A4179B22FE  
D4A476A812ED33C2 A37AD4727F2FB6A7 536496733A17ADD7 A849D4C8E1909347  
t=30: DDD91CB1FDBFD41 B251E1018FD0C473 42FE965258B7E0EC 887298E1C82038F7  
04986D7E3FD773AE D4A476A812ED33C2 A37AD4727F2FB6A7 536496733A17ADD7  
t=31: 4AA9D15BCE3FB9F DDD91CB1FDBFD41 B251E1018FD0C473 42FE965258B7E0EC  
53C83C436C1A8C55 04986D7E3FD773AE D4A476A812ED33C2 A37AD4727F2FB6A7  
t=32: 063BE3A3BA1F925C 4AA9D15BCE3FB9F DDD91CB1FDBFD41 B251E1018FD0C473  
EB8227C63C6143AB 53C83C436C1A8C55 04986D7E3FD773AE D4A476A812ED33C2  
t=33: 0BA0D71206B4CE72 063BE3A3BA1F925C 4AA9D15BCE3FB9F DDD91CB1FDBFD41  
672DE7D3FD6CE274 EB8227C63C6143AB 53C83C436C1A8C55 04986D7E3FD773AE  
t=34: 344234B9E239CFBD 0BA0D71206B4CE72 063BE3A3BA1F925C 4AA9D15BCE3FB9F  
38893650766BED56 672DE7D3FD6CE274 EB8227C63C6143AB 53C83C436C1A8C55  
t=35: 8C098B89A7906A73 344234B9E239CFBD 0BA0D71206B4CE72 063BE3A3BA1F925C  
A7B9698E7EDB54BD 38893650766BED56 672DE7D3FD6CE274 EB8227C63C6143AB  
t=36: C5A836CC05300A0C 8C098B89A7906A73 344234B9E239CFBD 0BA0D71206B4CE72  
BC35E565541C0486 A7B9698E7EDB54BD 38893650766BED56 672DE7D3FD6CE274  
t=37: CDFE2808D45E7924 C5A836CC05300A0C 8C098B89A7906A73 344234B9E239CFBD  
8B500635C180CC3B BC35E565541C0486 A7B9698E7EDB54BD 38893650766BED56  
t=38: EDC87E1B480C8A77 CDFE2808D45E7924 C5A836CC05300A0C 8C098B89A7906A73  
F309D755002EF931 8B500635C180CC3B BC35E565541C0486 A7B9698E7EDB54BD  
t=39: 13D3A842A45159E7 EDC87E1B480C8A77 CDFE2808D45E7924 C5A836CC05300A0C  
6D9958CC3F974B68 F309D755002EF931 8B500635C180CC3B BC35E565541C0486  
t=40: 17AA585EACBB1D8C 13D3A842A45159E7 EDC87E1B480C8A77 CDFE2808D45E7924  
A62EFC64B5A504C7 6D9958CC3F974B68 F309D755002EF931 8B500635C180CC3B  
t=41: 7BCD6230B77F244A 17AA585EACBB1D8C 13D3A842A45159E7 EDC87E1B480C8A77  
543AA84578643C3A A62EFC64B5A504C7 6D9958CC3F974B68 F309D755002EF931  
t=42: BE63D26279808C58 7BCD6230B77F244A 17AA585EACBB1D8C 13D3A842A45159E7  
5D1D742D663F17BE 543AA84578643C3A A62EFC64B5A504C7 6D9958CC3F974B68  
t=43: C6F1FBBEDEA32F8E BE63D26279808C58 7BCD6230B77F244A 17AA585EACBB1D8C  
D83E6A094C606812 5D1D742D663F17BE 543AA84578643C3A A62EFC64B5A504C7  
t=44: 6346F580DD1CEC37 C6F1FBBEDEA32F8E BE63D26279808C58 7BCD6230B77F244A  
5BE7E65BC706B684 D83E6A094C606812 5D1D742D663F17BE 543AA84578643C3A  
t=45: 0C618B0042ADC22E 6346F580DD1CEC37 C6F1FBBEDEA32F8E BE63D26279808C58  
BA9737EA9A33D1D4 5BE7E65BC706B684 D83E6A094C606812 5D1D742D663F17BE  
t=46: BF9E3A882B0B4301 0C618B0042ADC22E 6346F580DD1CEC37 C6F1FBBEDEA32F8E  
FCAE077AAC5CF59 BA9737EA9A33D1D4 5BE7E65BC706B684 D83E6A094C606812  
t=47: 586A3D84D04FD482 BF9E3A882B0B4301 0C618B0042ADC22E 6346F580DD1CEC37

t=48:	45F48765CE6A2794 5B2A6269DAF95602 68B8F9BE61FCFCE0	FCAE077AAC5CF59 586A3D84D04FD482 45F48765CE6A2794	BA9737EA9A33D1D4 BF9E3A882B0B4301 FCAE077AAC5CF59	5BE7E65BC706B684 0C618B0042ADC22E BA9737EA9A33D1D4
t=49:	5CF5F4502BB65B08 038E7DBE733DDC71	5B2A6269DAF95602 68B8F9BE61FCFCE0	586A3D84D04FD482 45F48765CE6A2794	BF9E3A882B0B4301 FCAE077AAC5CF59
t=50:	DBB34340CCBA2D51 3107BE9653EA4652	5CF5F4502BB65B08 038E7DBE733DDC71	5B2A6269DAF95602 68B8F9BE61FCFCE0	586A3D84D04FD482 45F48765CE6A2794
t=51:	903B6E3D2CFDFA75 13DD1F6DC423ED9D	DBB34340CCBA2D51 3107BE9653EA4652	5CF5F4502BB65B08 038E7DBE733DDC71	5B2A6269DAF95602 68B8F9BE61FCFCE0
t=52:	22F68588F55C8E62 A6B45F7216FF1A92	903B6E3D2CFDFA75 13DD1F6DC423ED9D	DBB34340CCBA2D51 3107BE9653EA4652	5CF5F4502BB65B08 038E7DBE733DDC71
t=53:	AF6B1C8DFE414C86 00384D2ED96AE437	22F68588F55C8E62 A6B45F7216FF1A92	903B6E3D2CFDFA75 13DD1F6DC423ED9D	DBB34340CCBA2D51 3107BE9653EA4652
t=54:	BDCB5AC728279AB9 768B77A7A84E1FDF	AF6B1C8DFE414C86 00384D2ED96AE437	22F68588F55C8E62 A6B45F7216FF1A92	903B6E3D2CFDFA75 13DD1F6DC423ED9D
t=55:	AAB7B27B1CE5D524 C4E802298CE15481	BDCB5AC728279AB9 768B77A7A84E1FDF	AF6B1C8DFE414C86 00384D2ED96AE437	22F68588F55C8E62 A6B45F7216FF1A92
t=56:	983A35EE537826F0 0BE7B3FE43EB3463	AAB7B27B1CE5D524 C4E802298CE15481	BDCB5AC728279AB9 768B77A7A84E1FDF	AF6B1C8DFE414C86 00384D2ED96AE437
t=57:	C2C9007B1BE9CF4D 397E5321BD27DD2E	983A35EE537826F0 0BE7B3FE43EB3463	AAB7B27B1CE5D524 C4E802298CE15481	BDCB5AC728279AB9 768B77A7A84E1FDF
t=58:	1A0FCFF62C67E0A5 BECEA5B070FDDE4B	C2C9007B1BE9CF4D 397E5321BD27DD2E	983A35EE537826F0 0BE7B3FE43EB3463	AAB7B27B1CE5D524 C4E802298CE15481
t=59:	E7D763B06CC2AC34 5744D273C1F38773	1A0FCFF62C67E0A5 BECEA5B070FDDE4B	C2C9007B1BE9CF4D 397E5321BD27DD2E	983A35EE537826F0 0BE7B3FE43EB3463
t=60:	486F4BADA8CB4D96 6616508EA2133B34	E7D763B06CC2AC34 5744D273C1F38773	1A0FCFF62C67E0A5 BECEA5B070FDDE4B	C2C9007B1BE9CF4D 397E5321BD27DD2E
t=61:	DC6770B956F0F055 970988E60D971C48	486F4BADA8CB4D96 6616508EA2133B34	E7D763B06CC2AC34 5744D273C1F38773	1A0FCFF62C67E0A5 BECEA5B070FDDE4B
t=62:	5F7CE563832894E8 650678F827F7701F	DC6770B956F0F055 970988E60D971C48	486F4BADA8CB4D96 6616508EA2133B34	E7D763B06CC2AC34 5744D273C1F38773
t=63:	C32DC022E5937D1B 395087939EBDBDD1	5F7CE563832894E8 650678F827F7701F	DC6770B956F0F055 970988E60D971C48	486F4BADA8CB4D96 6616508EA2133B34
t=64:	FEE659ED0008B0EE C24F9D75EB91E085	C32DC022E5937D1B 395087939EBDBDD1	5F7CE563832894E8 650678F827F7701F	E7D763B06CC2AC34 5744D273C1F38773
t=65:	A732EB36834C074A 09A466D6CD127E9D	FEE659ED0008B0EE C24F9D75EB91E085	C32DC022E5937D1B 395087939EBDBDD1	5F7CE563832894E8 650678F827F7701F
t=66:	5B1682F0AF0FF6A6 DA56B1B76183E9D1	A732EB36834C074A 09A466D6CD127E9D	FEE659ED0008B0EE C24F9D75EB91E085	C32DC022E5937D1B 395087939EBDBDD1
t=67:	A71757CE29CD6B61 30ABC3DB21388EDB	5B1682F0AF0FF6A6 DA56B1B76183E9D1	A732EB36834C074A 09A466D6CD127E9D	FEE659ED0008B0EE C24F9D75EB91E085
t=68:	8202AB6393E0A6D7 4EDBCB450C9D68A5	A71757CE29CD6B61 30ABC3DB21388EDB	5B1682F0AF0FF6A6 DA56B1B76183E9D1	A732EB36834C074A 09A466D6CD127E9D
t=69:	6508770A9E741395 6B4F58DE06441A41	8202AB6393E0A6D7 4EDBCB450C9D68A5	A71757CE29CD6B61 30ABC3DB21388EDB	5B1682F0AF0FF6A6 DA56B1B76183E9D1
t=70:	F7C52916A6830F3F 55F85F28969F648B	6508770A9E741395 6B4F58DE06441A41	8202AB6393E0A6D7 4EDBCB450C9D68A5	A71757CE29CD6B61 30ABC3DB21388EDB
t=71:	061595A1758E4E5C D94F8C3E0A2F60A9	F7C52916A6830F3F 55F85F28969F648B	6508770A9E741395 6B4F58DE06441A41	8202AB6393E0A6D7 4EDBCB450C9D68A5
t=72:	D5368734187ECCB A8C792C91D097031	061595A1758E4E5C D94F8C3E0A2F60A9	F7C52916A6830F3F 55F85F28969F648B	6508770A9E741395 6B4F58DE06441A41
t=73:	F338848E621D9D09 9769EC0E9A73A2BD	D5368734187ECCB A8C792C91D097031	F338848E621D9D09 9769EC0E9A73A2BD	F7C52916A6830F3F 55F85F28969F648B
t=74:	86A48D31E4F7A2E6 019AA3BCBEBBCD10	F338848E621D9D09 9769EC0E9A73A2BD	86A48D31E4F7A2E6 019AA3BCBEBBCD10	9769EC0E9A73A2BD D94F8C3E0A2F60A9
t=75:	8DFF4C4DDF36D9E2 67523326ED58C22B	86A48D31E4F7A2E6 019AA3BCBEBBCD10	8DFF4C4DDF36D9E2 67523326ED58C22B	86A48D31E4F7A2E6 019AA3BCBEBBCD10
t=76:	D6EB4F969D4CF40A 054704D916035D9D	8DFF4C4DDF36D9E2 67523326ED58C22B	D6EB4F969D4CF40A 054704D916035D9D	8DFF4C4DDF36D9E2 67523326ED58C22B
t=77:	F03D357829EF4D22 FDDF88A8DFF1FD36	D6EB4F969D4CF40A 054704D916035D9D	F03D357829EF4D22 FDDF88A8DFF1FD36	D6EB4F969D4CF40A 054704D916035D9D
t=78:	66CDBC9BC2B6E0C B3953BA10977D31A	FDDF88A8DFF1FD36 66CDBC9BC2B6E0C	66CDBC9BC2B6E0C B3953BA10977D31A	FDDF88A8DFF1FD36 66CDBC9BC2B6E0C
t=79:	B9F6EF4757271CB2 12446E230B3B76AC	B3953BA10977D31A B9F6EF4757271CB2	B9F6EF4757271CB2 12446E230B3B76AC	B3953BA10977D31A B9F6EF4757271CB2

H[0] = 8C3D37C819544DA2 + B9F6EF4757271CB2 = 4634270F707B6A54  
H[1] = 73E1996689DCD4D6 + 66CDBC9BC2B6E0C = DAAE7530460842E2  
H[2] = 1DFAB7AE32FF9C82 + F03D357829EF4D22 = 0E37ED265CEEE9A4  
H[3] = 679DD5154829F9CF + D6EB4F969D4CF40A = 3E8924AAF57C93D9

H[4] = 0F6D2B697BD44DA8 + 12446E230B3B76AC = 21B1998C870FC454  
H[5] = 77E36F7304C48942 + B3953BA10977D31A = 2B78AB140E3C5C5C  
H[6] = 3F9D85A86A1D36C8 + FDDF88A8DFF1FD36 = 3D7D0E514A0F33FE  
H[7] = 1112E6AD91D692A1 + 054704D916035D9D = 1659EB86A7D9F03E

-----  
Message Digest is

4634270F  
707B6A54 DAAE7530 460842E2 0E37ED26 5CEEE9A4 3E8924AA

=====  
Two Block Message Sample

Input Message:  
"abcdefghijklmnopghijklfghijklmghijklmnoijklmnopjklmnopqklmnopqrlmnopqrsmnopqrstnopqrstu"

=====  
Initial hash value:

H[0] = 8C3D37C819544DA2  
H[1] = 73E1996689DCD4D6  
H[2] = 1DFAB7AE32FF9C82  
H[3] = 679DD514582F9FCF  
H[4] = 0F6D2B697BD44DA8  
H[5] = 77E36F7304C48942  
H[6] = 3F9D85A86A1D36C8  
H[7] = 1112E6AD91D692A1

=====  
Block Contents:

W[ 0] = 6162636465666768  
W[ 1] = 6263646566676869  
W[ 2] = 636465666768696A  
W[ 3] = 6465666768696A6B  
W[ 4] = 65666768696A6B6C  
W[ 5] = 666768696A6B6C6D  
W[ 6] = 6768696A6B6C6D6E  
W[ 7] = 68696A6B6C6D6E6F  
W[ 8] = 696A6B6C6D6E6F70  
W[ 9] = 6A6B6C6D6E6F7071  
W[10] = 6B6C6D6E6F707172  
W[11] = 6C6D6E6F70717273  
W[12] = 6D6E6F7071727374  
W[13] = 6E6F707172737475  
W[14] = 8000000000000000  
W[15] = 0000000000000000

	A/E	B/F	C/G	D/H
t= 0:	9F86179E424C123A E606D2E95ADA8A6B	8C3D37C819544DA2 0F6D2B697BD44DA8	73E1996689DCD4D6 77E36F7304C48942	1DFAB7AE32FF9C82 3F9D85A86A1D36C8
t= 1:	533141CB525091B9 48B022A85133E95D	9F86179E424C123A E606D2E95ADA8A6B	8C3D37C819544DA2 0F6D2B697BD44DA8	73E1996689DCD4D6 77E36F7304C48942
t= 2:	E9CF7C4D67D20354 57425F1189DC982C	533141CB525091B9 48B022A85133E95D	9F86179E424C123A E606D2E95ADA8A6B	8C3D37C819544DA2 0F6D2B697BD44DA8
t= 3:	A5ADFE61082B9ABD 9848CEBCCFD84FEA	E9CF7C4D67D20354 57425F1189DC982C	533141CB525091B9 48B022A85133E95D	9F86179E424C123A E606D2E95ADA8A6B
t= 4:	2C3C2C5ED8EBD26D E771AD738FE58E76	A5ADFE61082B9ABD 9848CEBCCFD84FEA	E9CF7C4D67D20354 57425F1189DC982C	533141CB525091B9 48B022A85133E95D
t= 5:	AFB0D44C82DFF225 CFE93DD39AF3ABF	2C3C2C5ED8EBD26D E771AD738FE58E76	A5ADFE61082B9ABD 9848CEBCCFD84FEA	E9CF7C4D67D20354 57425F1189DC982C
t= 6:	353191AF8D65DEE9 DCF6B078908DFF9D	AFB0D44C82DFF225 CFE93DD39AF3ABF	2C3C2C5ED8EBD26D E771AD738FE58E76	A5ADFE61082B9ABD 9848CEBCCFD84FEA
t= 7:	F0ED5E552EE187D9 FF4C75D2E1DE3279	353191AF8D65DEE9 DCF6B078908DFF9D	AFB0D44C82DFF225 CFE93DD39AF3ABF	2C3C2C5ED8EBD26D E771AD738FE58E76
t= 8:	779397867FBA1360	F0ED5E552EE187D9	353191AF8D65DEE9	AFB0D44C82DFF225

t= 9:	DE20103108B0A669 B2DFC180C2685A63 842E374C7133F9F6	FF4C75D2E1DE3279 779397867FBA1360 DE20103108B0A669	DCF6B078908DF9D F0ED5E552EE187D9 FF4C75D2E1DE3279	CFFE93DD39AF3ABF 353191AF8D65DEE9 DCF6B078908DF9D
t=10:	360F5422F09700EC 60C5AE3708E67485	B2DFC180C2685A63 842E374C7133F9F6	779397867FBA1360 DE20103108B0A669	F0ED5E552EE187D9 FF4C75D2E1DE3279
t=11:	DAEFF6A462386C20 A4889E7CE945580A	360F5422F09700EC 60C5AE3708E67485	B2DFC180C2685A63 842E374C7133F9F6	779397867FBA1360 DE20103108B0A669
t=12:	0DECA4759C7E00AD 5EE3BD7D600E83AB	DAEFF6A462386C20 A4889E7CE945580A	360F5422F09700EC 60C5AE3708E67485	B2DFC180C2685A63 842E374C7133F9F6
t=13:	13B00ED20E90DAC9 5BD8653319107D74	0DECA4759C7E00AD 5EE3BD7D600E83AB	DAEFF6A462386C20 A4889E7CE945580A	360F5422F09700EC 60C5AE3708E67485
t=14:	D904C89042A3AD4D 2472BA283736D707	13B00ED20E90DAC9 5BD8653319107D74	0DECA4759C7E00AD 5EE3BD7D600E83AB	DAEFF6A462386C20 A4889E7CE945580A
t=15:	F2787EC95BF1F813 99AC6FC931B828B5	D904C89042A3AD4D 2472BA283736D707	13B00ED20E90DAC9 5BD8653319107D74	0DECA4759C7E00AD 5EE3BD7D600E83AB
t=16:	C73C91546E687207 86A4CA2DC3377691	F2787EC95BF1F813 99AC6FC931B828B5	D904C89042A3AD4D 2472BA283736D707	13B00ED20E90DAC9 5BD8653319107D74
t=17:	4F773C1E20EF1984 3A2886065715B415	4F773C1E20EF1984 86A4CA2DC3377691	F2787EC95BF1F813 99AC6FC931B828B5	D904C89042A3AD4D 2472BA283736D707
t=18:	90DE39FF4862F8DE E7DB461C33EC4D87	4F773C1E20EF1984 3A2886065715B415	C73C91546E687207 86A4CA2DC3377691	F2787EC95BF1F813 99AC6FC931B828B5
t=19:	9889961BC5B9B080 18DBE557A44B8215	90DE39FF4862F8DE E7DB461C33EC4D87	9889961BC5B9B080 18DBE557A44B8215	C73C91546E687207 86A4CA2DC3377691
t=20:	00BE5FE77AEF04D 919D9DD3F8E192BA	9889961BC5B9B080 18DBE557A44B8215	00BE5FE77AEF04D 919D9DD3F8E192BA	4F773C1E20EF1984 3A2886065715B415
t=21:	4916899865BA519B 494E40936BF36522	00BE5FE77AEF04D 919D9DD3F8E192BA	4916899865BA519B 494E40936BF36522	90DE39FF4862F8DE E7DB461C33EC4D87
t=22:	2FD4751621FAA436 461316088EE39598	4916899865BA519B 494E40936BF36522	2FD4751621FAA436 461316088EE39598	9889961BC5B9B080 18DBE557A44B8215
t=23:	A895267A751BBB51 7BF13FD8BDEC96E5	461316088EE39598 A895267A751BBB51	A895267A751BBB51 7BF13FD8BDEC96E5	90DE39FF4862F8DE E7DB461C33EC4D87
t=24:	413510E472DEBCAB E047DEF947ECF770	7BF13FD8BDEC96E5 413510E472DEBCAB	413510E472DEBCAB E047DEF947ECF770	9889961BC5B9B080 18DBE557A44B8215
t=25:	0D9BD60E7ECF0CA0 33635248DD1081A9	413510E472DEBCAB E047DEF947ECF770	0D9BD60E7ECF0CA0 33635248DD1081A9	90DE39FF4862F8DE E7DB461C33EC4D87
t=26:	2B6939189B6398BD E1EA008EABDDDD8A	0D9BD60E7ECF0CA0 33635248DD1081A9	2B6939189B6398BD E1EA008EABDDDD8A	9889961BC5B9B080 18DBE557A44B8215
t=27:	88C8D5C8FDF31407 864D416A722024F2	2B6939189B6398BD E1EA008EABDDDD8A	88C8D5C8FDF31407 864D416A722024F2	90DE39FF4862F8DE E7DB461C33EC4D87
t=28:	C48C3778FBDC16E5 8A4110030D28BE95	88C8D5C8FDF31407 864D416A722024F2	C48C3778FBDC16E5 8A4110030D28BE95	9889961BC5B9B080 18DBE557A44B8215
t=29:	D9F2AED6553533CF EC047BC2E5A7C98B	8A4110030D28BE95 D9F2AED6553533CF	D9F2AED6553533CF EC047BC2E5A7C98B	90DE39FF4862F8DE E7DB461C33EC4D87
t=30:	9C7DF3E0118B2A03 946A5AB5B814086C	EC047BC2E5A7C98B 9C7DF3E0118B2A03	9C7DF3E0118B2A03 946A5AB5B814086C	9889961BC5B9B080 18DBE557A44B8215
t=31:	2642E04B9FC242CC F51B8137241F6AEE	946A5AB5B814086C 2642E04B9FC242CC	2642E04B9FC242CC F51B8137241F6AEE	90DE39FF4862F8DE E7DB461C33EC4D87
t=32:	9EE2EDA5DE6A4BBF 3A110967CED1066A	F51B8137241F6AEE 9EE2EDA5DE6A4BBF	9EE2EDA5DE6A4BBF 3A110967CED1066A	9889961BC5B9B080 18DBE557A44B8215
t=33:	96DD4E3F9F4ECB4B F7EA1DB2DE0E0F9C	3A110967CED1066A 96DD4E3F9F4ECB4B	96DD4E3F9F4ECB4B F7EA1DB2DE0E0F9C	90DE39FF4862F8DE E7DB461C33EC4D87
t=34:	0A6F2F765D8F08D4 A4289B29B081DC1E	F7EA1DB2DE0E0F9C 0A6F2F765D8F08D4	0A6F2F765D8F08D4 A4289B29B081DC1E	9889961BC5B9B080 18DBE557A44B8215
t=35:	7696BAE1D69A401A 5AC1DA918A905421	A4289B29B081DC1E 7696BAE1D69A401A	7696BAE1D69A401A 5AC1DA918A905421	90DE39FF4862F8DE E7DB461C33EC4D87
t=36:	90B4206FAB7D0530 39083A7BEA35DAC5	5AC1DA918A905421 90B4206FAB7D0530	90B4206FAB7D0530 39083A7BEA35DAC5	9889961BC5B9B080 18DBE557A44B8215
t=37:	071FA5F764C98E5F 08ECE17FD62AF2F9	39083A7BEA35DAC5 071FA5F764C98E5F	071FA5F764C98E5F 08ECE17FD62AF2F9	90DE39FF4862F8DE E7DB461C33EC4D87
t=38:	CE0FCC34AD8DA36C 4685454816101EE6	071FA5F764C98E5F 08ECE17FD62AF2F9	CE0FCC34AD8DA36C 4685454816101EE6	9889961BC5B9B080 18DBE557A44B8215
t=39:	FB78ADD4117E0D4C 510D7EED2F67960B	08ECE17FD62AF2F9 CE0FCC34AD8DA36C	FB78ADD4117E0D4C 510D7EED2F67960B	90DE39FF4862F8DE E7DB461C33EC4D87
t=40:	595A8250371D868B 5F514945AC2AF500	CE0FCC34AD8DA36C 4685454816101EE6	595A8250371D868B 5F514945AC2AF500	9889961BC5B9B080 18DBE557A44B8215
t=41:	F1DC306C639EFB88 413017F53DFED208	4685454816101EE6 595A8250371D868B	F1DC306C639EFB88 413017F53DFED208	90DE39FF4862F8DE E7DB461C33EC4D87
t=42:	275D96E89981CFE3 0245872EE399310A	595A8250371D868B 5F514945AC2AF500	275D96E89981CFE3 0245872EE399310A	9889961BC5B9B080 18DBE557A44B8215
t=43:	5BF82DA35571E11	F1DC306C639EFB88 413017F53DFED208	5BF82DA35571E11	90DE39FF4862F8DE E7DB461C33EC4D87

t=44:	76C80FF098F6ABB4 E58F44F1BD431603 5EBDABABF6D782FD	0245872EE399310A 5BF882DA35571E11 76C80FF098F6ABB4	413017F53DFED208 275D96E89981CFE3 0245872EE399310A	5F514945AC2AF500 F1DC306C639EFB88 413017F53DFED208
t=45:	53B71BC37D03FACE 8598A1A47D0357A5	E58F44F1BD431603 5EBDABABF6D782FD	5BF882DA35571E11 76C80FF098F6ABB4	275D96E89981CFE3 0245872EE399310A
t=46:	345AE4AA187437E1 7E74231C4177D4D1	53B71BC37D03FACE 8598A1A47D0357A5	E58F44F1BD431603 5EBDABABF6D782FD	5BF882DA35571E11 76C80FF098F6ABB4
t=47:	626CEEE8A84D84E0 F35A915AD59125EC	626CEEE8A84D84E0 F35A915AD59125EC	345AE4AA187437E1 7E74231C4177D4D1	E58F44F1BD431603 5EBDABABF6D782FD
t=48:	C46DD1206FE63A9F B7E272EFF6528CD5	C46DD1206FE63A9F B7E272EFF6528CD5	345AE4AA187437E1 7E74231C4177D4D1	53B71BC37D03FACE 8598A1A47D0357A5
t=49:	A6190DF4A1B0F666 F01D59E16E01FC67	A6190DF4A1B0F666 F01D59E16E01FC67	626CEEE8A84D84E0 F35A915AD59125EC	345AE4AA187437E1 7E74231C4177D4D1
t=50:	D1EA1DDDE4EF669B 45B6FA884E24396A	A6190DF4A1B0F666 F01D59E16E01FC67	C46DD1206FE63A9F B7E272EFF6528CD5	626CEEE8A84D84E0 F35A915AD59125EC
t=51:	9F33EE7183AED669 B133508E689D5618	D1EA1DDDE4EF669B 45B6FA884E24396A	A6190DF4A1B0F666 F01D59E16E01FC67	C46DD1206FE63A9F B7E272EFF6528CD5
t=52:	B13ECBE9C5AB549B 257000654C161D77	9F33EE7183AED669 B133508E689D5618	D1EA1DDDE4EF669B 45B6FA884E24396A	A6190DF4A1B0F666 F01D59E16E01FC67
t=53:	372E19656F4C71F6 53B78D2B828C9FD0	B13ECBE9C5AB549B 257000654C161D77	9F33EE7183AED669 B133508E689D5618	D1EA1DDDE4EF669B 45B6FA884E24396A
t=54:	AE694575918CF0FA 6349FBF49B89B65D	372E19656F4C71F6 53B78D2B828C9FD0	B13ECBE9C5AB549B 257000654C161D77	9F33EE7183AED669 B133508E689D5618
t=55:	617B509949F118FD B1F1CB2F4FC0A9DE	AE694575918CF0FA 6349FBF49B89B65D	372E19656F4C71F6 53B78D2B828C9FD0	B13ECBE9C5AB549B 257000654C161D77
t=56:	22C244C694B15B1C AC9793625B6713A6	617B509949F118FD B1F1CB2F4FC0A9DE	AE694575918CF0FA 6349FBF49B89B65D	372E19656F4C71F6 53B78D2B828C9FD0
t=57:	3311FB1C405F0D0F E4C449F90128CC38	22C244C694B15B1C AC9793625B6713A6	617B509949F118FD B1F1CB2F4FC0A9DE	AE694575918CF0FA 6349FBF49B89B65D
t=58:	594961E04CE3A122 B6F7A90EB9C18C0A	3311FB1C405F0D0F E4C449F90128CC38	22C244C694B15B1C AC9793625B6713A6	617B509949F118FD B1F1CB2F4FC0A9DE
t=59:	0A392F484AF8A380 1AD7E0EE097FDEB0	594961E04CE3A122 B6F7A90EB9C18C0A	3311FB1C405F0D0F E4C449F90128CC38	22C244C694B15B1C AC9793625B6713A6
t=60:	E146E2A7C1A65C6B BB4DDA7E6C53497D	0A392F484AF8A380 1AD7E0EE097FDEB0	594961E04CE3A122 B6F7A90EB9C18C0A	3311FB1C405F0D0F E4C449F90128CC38
t=61:	529AB3BCA586375B 96D42DDC61058438	E146E2A7C1A65C6B BB4DDA7E6C53497D	0A392F484AF8A380 1AD7E0EE097FDEB0	594961E04CE3A122 B6F7A90EB9C18C0A
t=62:	70A7E4A859B8B382 7F8CAECE994D7B17	529AB3BCA586375B 96D42DDC61058438	E146E2A7C1A65C6B BB4DDA7E6C53497D	0A392F484AF8A380 1AD7E0EE097FDEB0
t=63:	1F5F60BBFE7CCCE7 DBBB47B6F5183CB6	70A7E4A859B8B382 7F8CAECE994D7B17	529AB3BCA586375B 96D42DDC61058438	E146E2A7C1A65C6B BB4DDA7E6C53497D
t=64:	9D537AF704E642F0 BC4B7813CCB07A48	1F5F60BBFE7CCCE7 DBBB47B6F5183CB6	70A7E4A859B8B382 7F8CAECE994D7B17	529AB3BCA586375B 96D42DDC61058438
t=65:	0F178025C27E422C E3065FF6F7ADDF6D	9D537AF704E642F0 BC4B7813CCB07A48	1F5F60BBFE7CCCE7 DBBB47B6F5183CB6	70A7E4A859B8B382 7F8CAECE994D7B17
t=66:	A93AA5F85D1BCDEA DD8BDB1945B27133	0F178025C27E422C E3065FF6F7ADDF6D	9D537AF704E642F0 BC4B7813CCB07A48	1F5F60BBFE7CCCE7 DBBB47B6F5183CB6
t=67:	B93B21F8AEB8F329 1546C7737C00F978	A93AA5F85D1BCDEA DD8BDB1945B27133	0F178025C27E422C E3065FF6F7ADDF6D	9D537AF704E642F0 BC4B7813CCB07A48
t=68:	CF675521103494C7 9202AE67985172D8	B93B21F8AEB8F329 1546C7737C00F978	A93AA5F85D1BCDEA DD8BDB1945B27133	0F178025C27E422C E3065FF6F7ADDF6D
t=69:	6BD1BCB0F69DEAB9 CC4A167A12B10D07	CF675521103494C7 9202AE67985172D8	6BD1BCB0F69DEAB9 CC4A167A12B10D07	A93AA5F85D1BCDEA DD8BDB1945B27133
t=70:	36FB6D38EC7A9F8F BF2DF292FDA17376	6BD1BCB0F69DEAB9 CC4A167A12B10D07	9202AE67985172D8 6BD1BCB0F69DEAB9	1546C7737C00F978 CF675521103494C7
t=71:	B45C8408593C88F6 70347EA05752DF76	36FB6D38EC7A9F8F BF2DF292FDA17376	6BD1BCB0F69DEAB9 CC4A167A12B10D07	9202AE67985172D8 6BD1BCB0F69DEAB9
t=72:	0CA25CCF6FF6180E 0FFA31707E364987	B45C8408593C88F6 70347EA05752DF76	36FB6D38EC7A9F8F BF2DF292FDA17376	6BD1BCB0F69DEAB9 CC4A167A12B10D07
t=73:	D49316BE5F130748 51269C93931E39F7	0CA25CCF6FF6180E 0FFA31707E364987	0CA25CCF6FF6180E 0FFA31707E364987	0FFA31707E364987 B45C8408593C88F6
t=74:	896EE1FEC0F16E4B 118DA75760797D25	D49316BE5F130748 51269C93931E39F7	0FFA31707E364987 D49316BE5F130748	0CA25CCF6FF6180E 0FFA31707E364987
t=75:	22007C194C5B05AD 070F4D2C71FD0609	896EE1FEC0F16E4B 118DA75760797D25	D49316BE5F130748 51269C93931E39F7	0FFA31707E364987 B45C8408593C88F6
t=76:	ED4C5451ED5670B7 D5AE0EB0DE35A312	22007C194C5B05AD 070F4D2C71FD0609	070F4D2C71FD0609 ED4C5451ED5670B7	0FFA31707E364987 B45C8408593C88F6
t=77:	F61D35F056C47639 137B9CA2A9375030	D5AE0EB0DE35A312 F61D35F056C47639	ED4C5451ED5670B7 D5AE0EB0DE35A312	0FFA31707E364987 B45C8408593C88F6
t=78:	EC01C4BEFAC2519	F61D35F056C47639	D5AE0EB0DE35A312 F61D35F056C47639	0FFA31707E364987 B45C8408593C88F6

F083B6FEFAEF695 137B9CA2A9375030 D5AE0EB0DE35A312 070F4D2C71FD0609  
t=79: 09C993659E2DEF45 EC01C4BFEACC2519 F61D35F056C47639 ED4C5451ED5670B7  
1617F9FA73004761 F6083B6FEFAEF695 137B9CA2A9375030 D5AE0EB0DE35A312

H[0] = 8C3D37C819544DA2 + 09C993659E2DEF45 = 9606CB2DB7823CE7  
H[1] = 73E1996689DCD4D6 + EC01C4BFEACC2519 = 5FE35E2674A8F9EF  
H[2] = 1DFAB7AE32FF9C82 + F61D35F056C47639 = 1417ED9E89C412BB  
H[3] = 679DD514582F9FCF + ED4C5451ED5670B7 = 54EA296645861086  
H[4] = 0F6D2B697BD44DA8 + 1617F9FA73004761 = 25852563EED49509  
H[5] = 77E36F7304C48942 + F6083B6FEFAEF695 = 6DEBAAE2F4737FD7  
H[6] = 3F9D85A86A1D36C8 + 137B9CA2A9375030 = 5319224B135486F8  
H[7] = 1112E6AD91D692A1 + D5AE0EB0DE35A312 = E6C0F55E700C35B3

Block Contents:

W[ 0] = 0000000000000000  
W[ 1] = 0000000000000000  
W[ 2] = 0000000000000000  
W[ 3] = 0000000000000000  
W[ 4] = 0000000000000000  
W[ 5] = 0000000000000000  
W[ 6] = 0000000000000000  
W[ 7] = 0000000000000000  
W[ 8] = 0000000000000000  
W[ 9] = 0000000000000000  
W[10] = 0000000000000000  
W[11] = 0000000000000000  
W[12] = 0000000000000000  
W[13] = 0000000000000000  
W[14] = 0000000000000000  
W[15] = 0000000000000380

	A/E	B/F	C/G	D/H
t= 0:	C62A1109950BC4B0 B6602607DA508EC1	9606CB2DB7823CE7 25852563EED49509	5FE35E2674A8F9EF 6DEBAAE2F4737FD7	1417ED9E89C412BB 5319224B135486F8
t= 1:	4A2EB8F6FF304F81 614F9DBEA0C1A45C	C62A1109950BC4B0 B6602607DA508EC1	9606CB2DB7823CE7 25852563EED49509	5FE35E2674A8F9EF 6DEBAAE2F4737FD7
t= 2:	D708ED5418B1A603 CF8726E0E363D72E	4A2EB8F6FF304F81 614F9DBEA0C1A45C	C62A1109950BC4B0 B6602607DA508EC1	9606CB2DB7823CE7 25852563EED49509
t= 3:	44D5660E0E213AA5 EFAA0CF5A58EB13D	D708ED5418B1A603 CF8726E0E363D72E	4A2EB8F6FF304F81 614F9DBEA0C1A45C	C62A1109950BC4B0 B6602607DA508EC1
t= 4:	957D13471214C5F4 981291723204C874	44D5660E0E213AA5 EFAA0CF5A58EB13D	D708ED5418B1A603 CF8726E0E363D72E	4A2EB8F6FF304F81 614F9DBEA0C1A45C
t= 5:	76E8C9D1C9DD8AB8 7FCDD3C31337A90E	957D13471214C5F4 981291723204C874	44D5660E0E213AA5 EFAA0CF5A58EB13D	D708ED5418B1A603 CF8726E0E363D72E
t= 6:	4B16F79453BE3727 80E62F655E7ED37B	76E8C9D1C9DD8AB8 7FCDD3C31337A90E	957D13471214C5F4 981291723204C874	44D5660E0E213AA5 EFAA0CF5A58EB13D
t= 7:	5E63338FBE9889D9 441041F54BE0537B	4B16F79453BE3727 80E62F655E7ED37B	76E8C9D1C9DD8AB8 7FCDD3C31337A90E	957D13471214C5F4 981291723204C874
t= 8:	C7338364B83DF9C6 E4FA1425EB9F0182	5E63338FBE9889D9 441041F54BE0537B	4B16F79453BE3727 80E62F655E7ED37B	76E8C9D1C9DD8AB8 7FCDD3C31337A90E
t= 9:	5ED78CF2D7AD0133 21EC095197532090	C7338364B83DF9C6 E4FA1425EB9F0182	5E63338FBE9889D9 441041F54BE0537B	4B16F79453BE3727 80E62F655E7ED37B
t=10:	75C6A9870347B569 37D613B93BD7DFB5	5ED78CF2D7AD0133 21EC095197532090	C7338364B83DF9C6 E4FA1425EB9F0182	5E63338FBE9889D9 441041F54BE0537B
t=11:	2330FC9F6CEAC437 2F1071A0C464DD6B	75C6A9870347B569 37D613B93BD7DFB5	5ED78CF2D7AD0133 21EC095197532090	C7338364B83DF9C6 E4FA1425EB9F0182
t=12:	B56EA6063E644DAF D97C54DC192D2B1A	2330FC9F6CEAC437 2F1071A0C464DD6B	75C6A9870347B569 37D613B93BD7DFB5	5ED78CF2D7AD0133 21EC095197532090
t=13:	F60601BFD3CE4BA2 B9D5E11F983972F8	B56EA6063E644DAF D97C54DC192D2B1A	2330FC9F6CEAC437 2F1071A0C464DD6B	75C6A9870347B569 37D613B93BD7DFB5
t=14:	FA6E99A8556DF258 015DEA3F41B9C289	F60601BFD3CE4BA2 B9D5E11F983972F8	B56EA6063E644DAF D97C54DC192D2B1A	2330FC9F6CEAC437 2F1071A0C464DD6B
t=15:	38E5F661C3F1191B 5279EE55AFE8AFCC	FA6E99A8556DF258 015DEA3F41B9C289	F60601BFD3CE4BA2 B9D5E11F983972F8	38E5F661C3F1191B 5279EE55AFE8AFCC
t=16:	ACDC1A5C38C85CD5 DB79F8F12D277F02	38E5F661C3F1191B 5279EE55AFE8AFCC	FA6E99A8556DF258 015DEA3F41B9C289	F60601BFD3CE4BA2 B9D5E11F983972F8
t=17:	4B9240C98A6F1B53 4DE55D4B2EA4F33C	ACDC1A5C38C85CD5 DB79F8F12D277F02	38E5F661C3F1191B 5279EE55AFE8AFCC	FA6E99A8556DF258 015DEA3F41B9C289

t=18: 4635F911BF4C6D0D 4B9240C9BA6F1B53 ACDC1A5C38C85CD5 38E5F661C3F1191B  
BCB192998C798DEA 4DE55D4B2EA4F33C DB79F8F12D277F02 5279EE55AFE8AFCC  
t=19: E586156D13060B8C 4635F911BF4C6D0D 4B9240C9BA6F1B53 ACDC1A5C38C85CD5  
176C6027F44C42A5 BCB192998C798DEA 4DE55D4B2EA4F33C DB79F8F12D277F02  
t=20: 65E9087A1372B7EE E586156D13060B8C 4635F911BF4C6D0D 4B9240C9BA6F1B53  
1CA79B5218212A16 176C6027F44C42A5 BCB192998C798DEA 4DE55D4B2EA4F33C  
t=21: 61D617FF18A51FA7 65E9087A1372B7EE E586156D13060B8C 4635F911BF4C6D0D  
FFF208DDA4ACF3BF 1CA79B5218212A16 176C6027F44C42A5 BCB192998C798DEA  
t=22: EAE30855B7D727BF 61D617FF18A51FA7 65E9087A1372B7EE E586156D13060B8C  
1908F447D8261EFD FFF208DDA4ACF3BF 1CA79B5218212A16 176C6027F44C42A5  
t=23: E17F4AA3CA31951F EAE30855B7D727BF 61D617FF18A51FA7 65E9087A1372B7EE  
A93A3B339DE2E79E 1908F447D8261EFD FFF208DDA4ACF3BF 1CA79B5218212A16  
t=24: CBDA7FD5D72B0448 E17F4AA3CA31951F EAE30855B7D727BF 61D617FF18A51FA7  
39CB25C47F7F1E76 A93A3B339DE2E79E 1908F447D8261EFD FFF208DDA4ACF3BF  
t=25: 875B7C8BD1FC6FFF CBDA7FD5D72B0448 E17F4AA3CA31951F EAE30855B7D727BF  
5061761EF4A7B430 39CB25C47F7F1E76 A93A3B339DE2E79E 1908F447D8261EFD  
t=26: 7493EB03CB083DCB D9DD068BDE33B870 23652F849EA698BE E17F4AA3CA31951F  
A00157FD4436BEC5 5061761EF4A7B430 39CB25C47F7F1E76 A93A3B339DE2E79E  
t=27: A2194EB42A179534 7493EB03CB083DCB 875B7C8BD1FC6FFF CBDA7FD5D72B0448  
75E556161E2D8F5E A00157FD4436BEC5 5061761EF4A7B430 39CB25C47F7F1E76  
t=28: 50120D72503F50A3 42194EB42A179534 7493EB03CB083DCB 875B7C8BD1FC6FFF  
B2288596FBF78C7A 75E556161E2D8F5E A00157FD4436BEC5 5061761EF4A7B430  
t=29: 9388C45EF9BEDABA 50120D72503F50A3 A2194EB42A179534 7493EB03CB083DCB  
377650FBEE17C4B3 B2288596FBF78C7A 75E556161E2D8F5E A00157FD4436BEC5  
t=30: FA0D8AF6122631D1 9388C45EF9BEDABA 50120D72503F50A3 A2194EB42A179534  
4417C8D07BA5397A 377650FBEE17C4B3 B2288596FBF78C7A 75E556161E2D8F5E  
t=31: 9E234A4F427D2B06 FA0D8AF6122631D1 9388C45EF9BEDABA 50120D72503F50A3  
23652F849EA698BE 4417C8D07BA5397A 377650FBEE17C4B3 B2288596FBF78C7A  
t=32: 8D9DC47628B2D452 9E234A4F427D2B06 FA0D8AF6122631D1 9388C45EF9BEDABA  
D9DD068BDE33B870 23652F849EA698BE 4417C8D07BA5397A 377650FBEE17C4B3  
t=33: DBC5AB3931DBA353 8D9DC47628B2D452 9E234A4F427D2B06 FA0D8AF6122631D1  
E3F00F8D49C43EC4 D9DD068BDE33B870 23652F849EA698BE 4417C8D07BA5397A  
t=34: 90BBFAFE9E70D4DE DBC5AB3931DBA353 8D9DC47628B2D452 9E234A4F427D2B06  
C79450C5A27F1152 E3F00F8D49C43EC4 D9DD068BDE33B870 23652F849EA698BE  
t=35: 0176074A50D737DC 90BBFAFE9E70D4DE DBC5AB3931DBA353 8D9DC47628B2D452  
484DCDA447B167ED C79450C5A27F1152 E3F00F8D49C43EC4 D9DD068BDE33B870  
t=36: 8A31589736A222D9 0176074A50D737DC 90BBFAFE9E70D4DE DBC5AB3931DBA353  
77F0533A9F4225D4 484DCDA447B167ED C79450C5A27F1152 E3F00F8D49C43EC4  
t=37: DB9603572C370B39 8A31589736A222D9 0176074A50D737DC 90BBFAFE9E70D4DE  
AD407246D492B9C9 77F0533A9F4225D4 484DCDA447B167ED C79450C5A27F1152  
t=38: A0BC2200492231A3 DB9603572C370B39 8A31589736A222D9 0176074A50D737DC  
001CFA61F6A94907 AD407246D492B9C9 77F0533A9F4225D4 484DCDA447B167ED  
t=39: D17150907EDA767B A0BC2200492231A3 DB9603572C370B39 8A31589736A222D9  
C7398391FEE339DE 001CFA61F6A94907 AD407246D492B9C9 77F0533A9F4225D4  
t=40: A3312953448FA7E1 D17150907EDA767B A0BC2200492231A3 DB9603572C370B39  
88C2310AFA13D7FD C7398391FEE339DE 001CFA61F6A94907 AD407246D492B9C9  
t=41: A1974BE1E531F375 A3312953448FA7E1 D17150907EDA767B A0BC2200492231A3  
9CABA67B2C460999 88C2310AFA13D7FD C7398391FEE339DE 001CFA61F6A94907  
t=42: 34FBAB3D67367DF A1974BE1E531F375 A3312953448FA7E1 D17150907EDA767B  
4AB15B8120A75FA0 9CABA67B2C460999 88C2310AFA13D7FD C7398391FEE339DE  
t=43: 47FB83EA0B09CFDF 34FBAB3D67367DF A1974BE1E531F375 A3312953448FA7E1  
82AF65BB8CF42FDF 4AB15B8120A75FA0 9CABA67B2C460999 88C2310AFA13D7FD  
t=44: BE123C3EE4765CED 47FB83EA0B09CFDF 34FBAB3D67367DF A1974BE1E531F375  
553B3C12510AF392 82AF65BB8CF42FDF 4AB15B8120A75FA0 9CABA67B2C460999  
t=45: 1BBD79A592A8BD47 BE123C3EE4765CED 47FB83EA0B09CFDF 34FBAB3D67367DF  
02E864735B8BF844 553B3C12510AF392 82AF65BB8CF42FDF 4AB15B8120A75FA0  
t=46: 0A8B7BECB393BFA4 1BBD79A592A8BD47 BE123C3EE4765CED 47FB83EA0B09CFDF  
1A8B439714CE8AF1 02E864735B8BF844 553B3C12510AF392 82AF65BB8CF42FDF  
t=47: 9510DFC044C38B79 0A8B7BECB393BFA4 1BBD79A592A8BD47 BE123C3EE4765CED  
F5B8B726BB1A26AC 1A8B439714CE8AF1 02E864735B8BF844 553B3C12510AF392  
t=48: 20C6FF36AAF2AFE6 9510DFC044C38B79 0A8B7BECB393BFA4 1BBD79A592A8BD47  
E5BDED3F35816323 F5B8B726BB1A26AC 1A8B439714CE8AF1 02E864735B8BF844  
t=49: 7FA16F7BA5EBE14C 20C6FF36AAF2AFE6 9510DFC044C38B79 0A8B7BECB393BFA4  
321838784DA12D56 E5BDED3F35816323 F5B8B726BB1A26AC 1A8B439714CE8AF1  
t=50: D2B84B6F18380735 7FA16F7BA5EBE14C 20C6FF36AAF2AFE6 9510DFC044C38B79  
67338C92A9E62CB3 321838784DA12D56 E5BDED3F35816323 F5B8B726BB1A26AC  
t=51: 9201269A2C54F51E D2B84B6F18380735 7FA16F7BA5EBE14C 20C6FF36AAF2AFE6  
18B3943C938E0477 67338C92A9E62CB3 321838784DA12D56 E5BDED3F35816323  
t=52: E5AA7485C1241AA4 9201269A2C54F51E D2B84B6F18380735 7FA16F7BA5EBE14C  
B9CD3EFC85E7C325 18B3943C938E0477 67338C92A9E62CB3 321838784DA12D56

t=53:	5E3B46494F487A51 A1A96A63C2F9C2D5	E5AA7485C1241AA4 B9CD3EFC85E7C325	9201269A2C54F51E 18B3943C938E0477	D2B8486F18380735 67338C92A9E62CB3
t=54:	30F07AE985818A3F F7B2345A39EE53D6	5E3B46494F487A51 A1A96A63C2F9C2D5	E5AA7485C1241AA4 B9CD3EFC85E7C325	9201269A2C54F51E 18B3943C938E0477
t=55:	D5441CF2BBBF4247 08170A5A65B9CC59	30F07AE985818A3F F7B2345A39EE53D6	5E3B46494F487A51 A1A96A63C2F9C2D5	E5AA7485C1241AA4 B9CD3EFC85E7C325
t=56:	A028FDCD5B3CD6C 40F68900D8945D8B	D5441CF2BBBF4247 08170A5A65B9CC59	30F07AE985818A3F F7B2345A39EE53D6	5E3B46494F487A51 A1A96A63C2F9C2D5
t=57:	A7EC8B6433605C8D 5DCC12B8F92F5A2A	A028FDCD5B3CD6C 40F68900D8945D8B	D5441CF2BBBF4247 08170A5A65B9CC59	30F07AE985818A3F F7B2345A39EE53D6
t=58:	E7440592C375CD18 800CC35788C7BD7E	A7EC8B6433605C8D 5DCC12B8F92F5A2A	A028FDCD5B3CD6C 40F68900D8945D8B	D5441CF2BBBF4247 08170A5A65B9CC59
t=59:	8CFEBA0AA271D1E8 18CEFFE60E5F76E0	E7440592C375CD18 800CC35788C7BD7E	A7EC8B6433605C8D 5DCC12B8F92F5A2A	A028FDCD5B3CD6C 40F68900D8945D8B
t=60:	47B9D567B722FB37 A530BEE0AB96F7BF	8CFEBA0AA271D1E8 18CEFFE60E5F76E0	E7440592C375CD18 800CC35788C7BD7E	A7EC8B6433605C8D 5DCC12B8F92F5A2A
t=61:	A3C575002D2A90C4 332C2311F81CC391	47B9D567B722FB37 A530BEE0AB96F7BF	18CEFFE60E5F76E0 47B9D567B722FB37	8CFEBA0AA271D1E8 800CC35788C7BD7E
t=62:	F96FCB96DEB9E494 7EFBDECC5D2B5820	A3C575002D2A90C4 332C2311F81CC391	47B9D567B722FB37 A530BEE0AB96F7BF	8CFEBA0AA271D1E8 18CEFFE60E5F76E0
t=63:	F363C8EC7B1A0888 2AE76A4CDD0B55BD	F96FCB96DEB9E494 7EFBDECC5D2B5820	A3C575002D2A90C4 332C2311F81CC391	47B9D567B722FB37 A530BEE0AB96F7BF
t=64:	B80FA4876347AD57 94D171AE802D6C9D	F363C8EC7B1A0888 2AE76A4CDD0B55BD	F96FCB96DEB9E494 7EFBDECC5D2B5820	A3C575002D2A90C4 332C2311F81CC391
t=65:	96345101E32B060F 5E1C4C06D3B02C21	B80FA4876347AD57 94D171AE802D6C9D	94D171AE802D6C9D 2AE76A4CDD0B55BD	F96FCB96DEB9E494 7EFBDECC5D2B5820
t=66:	35C874D072FDC82C 3353886B54C833B5	96345101E32B060F 5E1C4C06D3B02C21	94D171AE802D6C9D 2AE76A4CDD0B55BD	F96FCB96DEB9E494 7EFBDECC5D2B5820
t=67:	401E4175643FC458 EBEF8A88724B7FF7	35C874D072FDC82C 3353886B54C833B5	96345101E32B060F 5E1C4C06D3B02C21	B80FA4876347AD57 94D171AE802D6C9D
t=68:	D58E109317C90113 894598AE776D2ED5	401E4175643FC458 EBEF8A88724B7FF7	35C874D072FDC82C 3353886B54C833B5	96345101E32B060F 5E1C4C06D3B02C21
t=69:	68A4AA1333AEA536 09FCE6C815B259F9	D58E109317C90113 894598AE776D2ED5	401E4175643FC458 EBEF8A88724B7FF7	35C874D072FDC82C 3353886B54C833B5
t=70:	8A0D8C01F5588CC1 AEE1595DB3F40CF8	68A4AA1333AEA536 09FCE6C815B259F9	D58E109317C90113 894598AE776D2ED5	401E4175643FC458 EBEF8A88724B7FF7
t=71:	6F485B267B52813E BBA5B657667A087C	8A0D8C01F5588CC1 AEE1595DB3F40CF8	68A4AA1333AEA536 09FCE6C815B259F9	D58E109317C90113 894598AE776D2ED5
t=72:	CBF0FF8A3EB56D59 D0686F6ECF9AB51E	6F485B267B52813E BBA5B657667A087C	8A0D8C01F5588CC1 AEE1595DB3F40CF8	68A4AA1333AEA536 09FCE6C815B259F9
t=73:	AD1D1893EE86E3B6 D9F1FF942480D4D5	CBF0FF8A3EB56D59 D0686F6ECF9AB51E	6F485B267B52813E BBA5B657667A087C	8A0D8C01F5588CC1 AEE1595DB3F40CF8
t=74:	1443D9D1606FF323 7AE67C10BF64A97B	AD1D1893EE86E3B6 D9F1FF942480D4D5	D0686F6ECF9AB51E 1443D9D1606FF323	7AE67C10BF64A97B 84D997908D444616
t=75:	9F07271D479F94DC 84D997908D444616	1443D9D1606FF323 7AE67C10BF64A97B	D0686F6ECF9AB51E 1443D9D1606FF323	7AE67C10BF64A97B 84D997908D444616
t=76:	137D219301D78C4D 2FD56FB46B6F4F93	9F07271D479F94DC 84D997908D444616	1443D9D1606FF323 7AE67C10BF64A97B	84D997908D444616 1443D9D1606FF323
t=77:	21BE76D4C61FFBB7 BC85E4FC899BA009	137D219301D78C4D 2FD56FB46B6F4F93	9F07271D479F94DC 84D997908D444616	1443D9D1606FF323 7AE67C10BF64A97B
t=78:	D09E343D96634B44 D7AE6C10F1681576	21BE76D4C61FFBB7 BC85E4FC899BA009	137D219301D78C4D 2FD56FB46B6F4F93	9F07271D479F94DC 84D997908D444616
t=79:	8DF7FA8DD53CE3C A2C04D0AEA35A515	D09E343D96634B44 D7AE6C10F1681576	21BE76D4C61FFBB7 BC85E4FC899BA009	137D219301D78C4D 2FD56FB46B6F4F93

H[0] = 9606CB2DB7823CE7 + 8DF7FA8DD53CE3C = 23FEC5BB94D60B23  
H[1] = 5FE35E2674A8F9EF + D09E343D96634B44 = 308192640B0C4533  
H[2] = 1417ED9E89C412BB + 21BE76D4C61FFBB7 = 35D664734FE40E72  
H[3] = 54EA296645861086 + 137D219301D78C4D = 68674AF9475D9CD3  
H[4] = 25852563ED49509 + A2C04D0AEA35A515 = C845726ED90A3A1E  
H[5] = 6DEBAAE2F4737FD7 + D7AE6C10F1681576 = 459A16F3E5DB954D  
H[6] = 5319224B135486F8 + BC85E4FC899BA009 = 0F9F07479CF02701  
H[7] = E6C0F55E700C35B3 + 2FD56FB46B6F4F93 = 16966512DB7B8546

-----  
Message Digest is

23FEC5BB  
94D60B23 30819264 0B0C4533 35D66473 4FE40E72 68674AF9



#####

Secure Hash Algorithm  
Message Digest Length = 512/256

#####

One Block Message Sample

Input Message: "abc"

=====

Initial hash value:

H[0] = 22312194FC2BF72C  
H[1] = 9F555FA3C84C64C2  
H[2] = 2393B86B6F53B151  
H[3] = 963877195940EABD  
H[4] = 96283EE2A88EFFE3  
H[5] = BE5E1E2553863992  
H[6] = 2B0199FC2C85B8AA  
H[7] = 0EB72DDC81C52CA2

=====

Block Contents:

W[ 0] = 6162638000000000  
W[ 1] = 0000000000000000  
W[ 2] = 0000000000000000  
W[ 3] = 0000000000000000  
W[ 4] = 0000000000000000  
W[ 5] = 0000000000000000  
W[ 6] = 0000000000000000  
W[ 7] = 0000000000000000  
W[ 8] = 0000000000000000  
W[ 9] = 0000000000000000  
W[10] = 0000000000000000  
W[11] = 0000000000000000  
W[12] = 0000000000000000  
W[13] = 0000000000000000  
W[14] = 0000000000000000  
W[15] = 0000000000000018

	A/E	B/F	C/G	D/H
t= 0:	9A2F6D11C39458FE 3908D19FBCAF1B12	22312194FC2BF72C 96283EE2A88EFFE3	9F555FA3C84C64C2 BE5E1E2553863992	2393B86B6F53B151 2B0199FC2C85B8AA
t= 1:	9C465A16F85EBD68 BB7CF388A65CA549	9A2F6D11C39458FE 3908D19FBCAF1B12	22312194FC2BF72C 96283EE2A88EFFE3	9F555FA3C84C64C2 BE5E1E2553863992
t= 2:	D983D31C6CEA97C9 C8A505020ACB43C1	9C465A16F85EBD68 BB7CF388A65CA549	9A2F6D11C39458FE 3908D19FBCAF1B12	22312194FC2BF72C 96283EE2A88EFFE3
t= 3:	1D4E8897FCFF509E BA2E42D7925DE73B	D983D31C6CEA97C9 C8A505020ACB43C1	9C465A16F85EBD68 BB7CF388A65CA549	9A2F6D11C39458FE 3908D19FBCAF1B12
t= 4:	47376B4548F81A5F 24ECDAD8A00C274A	1D4E8897FCFF509E BA2E42D7925DE73B	D983D31C6CEA97C9 C8A505020ACB43C1	9C465A16F85EBD68 BB7CF388A65CA549
t= 5:	AA7B88556927CE7D 928BC3FFD85778B3	47376B4548F81A5F 24ECDAD8A00C274A	1D4E8897FCFF509E BA2E42D7925DE73B	D983D31C6CEA97C9 C8A505020ACB43C1
t= 6:	B906B3DF822CF7C1 2023A2CD4FA5A4D8	AA7B88556927CE7D 928BC3FFD85778B3	47376B4548F81A5F 24ECDAD8A00C274A	1D4E8897FCFF509E BA2E42D7925DE73B
t= 7:	2F839A3929F48358 245A5F77616E5931	B906B3DF822CF7C1 2023A2CD4FA5A4D8	AA7B88556927CE7D 928BC3FFD85778B3	47376B4548F81A5F 24ECDAD8A00C274A
t= 8:	4B1B0E41FB81C46C	2F839A3929F48358	B906B3DF822CF7C1	AA7B88556927CE7D

3FE7E2D7D7CED54A 245A5F77616E5931 2023A2CD4FA5A4D8 928BC3FFD85778B3  
t= 9: C4F1C71E65B18C15 4B1B0E41FB81C46C 2F839A3929F48358 B906B3DF822CF7C1  
FF5E80C2A75481B7 3FE7E2D7D7CED54A 245A5F77616E5931 2023A2CD4FA5A4D8  
t=10: 19D100CB5E1A3438 C4F1C71E65B18C15 4B1B0E41FB81C46C 2F839A3929F48358  
8484655060EBC3EE FF5E80C2A75481B7 3FE7E2D7D7CED54A 245A5F77616E5931  
t=11: 7AAB2807D4F3F022 19D100CB5E1A3438 C4F1C71E65B18C15 4B1B0E41FB81C46C  
BFC3C10D93FF00B8 8484655060EBC3EE FF5E80C2A75481B7 3FE7E2D7D7CED54A  
t=12: C9E2CB6D5D017BA7 7AAB2807D4F3F022 19D100CB5E1A3438 C4F1C71E65B18C15  
0662BFD092E26FB7 BFC3C10D93FF00B8 8484655060EBC3EE FF5E80C2A75481B7  
t=13: 8C4D8B98E0672988 C9E2CB6D5D017BA7 7AAB2807D4F3F022 19D100CB5E1A3438  
996E6405C63D83E3 0662BFD092E26FB7 BFC3C10D93FF00B8 8484655060EBC3EE  
t=14: 8D70D5EBDEA6724A 8C4D8B98E0672988 C9E2CB6D5D017BA7 7AAB2807D4F3F022  
CEAAAEFF7189EC61 996E6405C63D83E3 0662BFD092E26FB7 BFC3C10D93FF00B8  
t=15: 1EC6365704280063 8D70D5EBDEA6724A 8C4D8B98E0672988 C9E2CB6D5D017BA7  
419C9D961BA8EA8F CEAAAEFF7189EC61 996E6405C63D83E3 0662BFD092E26FB7  
t=16: 3AA569FFD0244EC4 1EC6365704280063 8D70D5EBDEA6724A 8C4D8B98E0672988  
4AC147677B104598 419C9D961BA8EA8F CEAAAEFF7189EC61 996E6405C63D83E3  
t=17: 2B6738209B26B728 3AA569FFD0244EC4 1EC6365704280063 8D70D5EBDEA6724A  
8EE2964A7ADF0F1D 4AC147677B104598 419C9D961BA8EA8F CEAAAEFF7189EC61  
t=18: 1FE6F882B4543504 2B6738209B26B728 3AA569FFD0244EC4 1EC6365704280063  
9CDC03D015DA1E7D 8EE2964A7ADF0F1D 4AC147677B104598 419C9D961BA8EA8F  
t=19: 73F4F92021784BB1 1FE6F882B4543504 2B6738209B26B728 3AA569FFD0244EC4  
6994C169A3D21916 9CDC03D015DA1E7D 8EE2964A7ADF0F1D 4AC147677B104598  
t=20: 4E8CA806D9319A74 73F4F92021784BB1 1FE6F882B4543504 2B6738209B26B728  
EDB2C079F68C6C60 6994C169A3D21916 9CDC03D015DA1E7D 8EE2964A7ADF0F1D  
t=21: 73214592D44C971F 4E8CA806D9319A74 73F4F92021784BB1 1FE6F882B4543504  
15BBE2C3AA0E7FD7 EDB2C079F68C6C60 6994C169A3D21916 9CDC03D015DA1E7D  
t=22: C56EBA713AEEA98F 73214592D44C971F 4E8CA806D9319A74 73F4F92021784BB1  
9D3DFCD24D8FF89C 15BBE2C3AA0E7FD7 EDB2C079F68C6C60 6994C169A3D21916  
t=23: 77F4BC54FFD4166B C56EBA713AEEA98F 73214592D44C971F 4E8CA806D9319A74  
A2981D9590A4F202 9D3DFCD24D8FF89C 15BBE2C3AA0E7FD7 EDB2C079F68C6C60  
t=24: B380E5F84D5DD65C 77F4BC54FFD4166B C56EBA713AEEA98F 73214592D44C971F  
1F5D06ACB369D69F A2981D9590A4F202 9D3DFCD24D8FF89C 15BBE2C3AA0E7FD7  
t=25: D8F368221281F96A B380E5F84D5DD65C 77F4BC54FFD4166B C56EBA713AEEA98F  
1E1F4553B9689309 1F5D06ACB369D69F A2981D9590A4F202 9D3DFCD24D8FF89C  
t=26: 73CE37ED59FC4595 D8F368221281F96A B380E5F84D5DD65C 77F4BC54FFD4166B  
5CB11AE8485959C1 1E1F4553B9689309 1F5D06ACB369D69F A2981D9590A4F202  
t=27: 2B79283E450B25D2 73CE37ED59FC4595 D8F368221281F96A B380E5F84D5DD65C  
9CA2CDF1A009F7A0 5CB11AE8485959C1 1E1F4553B9689309 1F5D06ACB369D69F  
t=28: 7C8479834A5D5E1C 2B79283E450B25D2 73CE37ED59FC4595 D8F368221281F96A  
F68FB52FAD1792EB 9CA2CDF1A009F7A0 5CB11AE8485959C1 1E1F4553B9689309  
t=29: 5623A1ED63ACFE9C 7C8479834A5D5E1C 2B79283E450B25D2 73CE37ED59FC4595  
4174C3633D3223CB F68FB52FAD1792EB 9CA2CDF1A009F7A0 5CB11AE8485959C1  
t=30: E0639E0746A1C4B9 5623A1ED63ACFE9C 7C8479834A5D5E1C 2B79283E450B25D2  
1D2D1CA60E71D9C4 4174C3633D3223CB F68FB52FAD1792EB 9CA2CDF1A009F7A0  
t=31: 0ECE8CB912DE792B E0639E0746A1C4B9 5623A1ED63ACFE9C 7C8479834A5D5E1C  
10EA82370759FF98 1D2D1CA60E71D9C4 4174C3633D3223CB F68FB52FAD1792EB  
t=32: 1011563D5CA6F21D 0ECE8CB912DE792B E0639E0746A1C4B9 5623A1ED63ACFE9C  
2ABC930AEB105DDA 10EA82370759FF98 1D2D1CA60E71D9C4 4174C3633D3223CB  
t=33: 001128D308744A0E 1011563D5CA6F21D 0ECE8CB912DE792B E0639E0746A1C4B9  
6DF15BD09649437B 2ABC930AEB105DDA 10EA82370759FF98 1D2D1CA60E71D9C4  
t=34: 785B23CDC94E4D47 001128D308744A0E 1011563D5CA6F21D 0ECE8CB912DE792B  
75645A2459E2B29C 6DF15BD09649437B 2ABC930AEB105DDA 10EA82370759FF98  
t=35: 431A6F9571320866 785B23CDC94E4D47 001128D308744A0E 1011563D5CA6F21D  
C4B1FDB46655F51A 75645A2459E2B29C 6DF15BD09649437B 2ABC930AEB105DDA  
t=36: D9E89BCB3B3616FE 431A6F9571320866 785B23CDC94E4D47 001128D308744A0E  
445065C5E0806A68 C4B1FDB46655F51A 75645A2459E2B29C 6DF15BD09649437B  
t=37: 4C5C5085AFB86C02 D9E89BCB3B3616FE 431A6F9571320866 785B23CDC94E4D47  
0738C70B69B65E34 445065C5E0806A68 C4B1FDB46655F51A 75645A2459E2B29C  
t=38: 49F49406AA9C7915 4C5C5085AFB86C02 D9E89BCB3B3616FE 431A6F9571320866  
DDBFB052E66E151C 0738C70B69B65E34 445065C5E0806A68 C4B1FDB46655F51A  
t=39: D53B182812347708 49F49406AA9C7915 4C5C5085AFB86C02 D9E89BCB3B3616FE

	C0233F51F0027715	DDBFB052E66E151C	0738C70B69B65E34	445065C5E0806A68
t=40:	6204009DBFD8D0DB	D53B182812347708	49F49406AA9C7915	4C5C5085AFB86C02
	768286C2D8FD381E	C0233F51F0027715	DDBFB052E66E151C	0738C70B69B65E34
t=41:	AF3049C09D76ABCE	6204009DBFD8D0DB	D53B182812347708	49F49406AA9C7915
	11540218448DA4BA	768286C2D8FD381E	C0233F51F0027715	DDBFB052E66E151C
t=42:	6F48A93A6216BDF	AF3049C09D76ABCE	6204009DBFD8D0DB	D53B182812347708
	60FF3969A7A7545B	11540218448DA4BA	768286C2D8FD381E	C0233F51F0027715
t=43:	163B797CD24C6D2E	6F48A93A6216BDF	AF3049C09D76ABCE	6204009DBFD8D0DB
	AF4C2A6889A401A2	60FF3969A7A7545B	11540218448DA4BA	768286C2D8FD381E
t=44:	75B6F991523D6EBD	163B797CD24C6D2E	6F48A93A6216BDF	AF3049C09D76ABCE
	BE913F4585AA524A	AF4C2A6889A401A2	60FF3969A7A7545B	11540218448DA4BA
t=45:	807232323213D257	75B6F991523D6EBD	163B797CD24C6D2E	6F48A93A6216BDF
	6269B8150084C5E5	BE913F4585AA524A	AF4C2A6889A401A2	60FF3969A7A7545B
t=46:	5A93EC3C573AB27A	807232323213D257	75B6F991523D6EBD	163B797CD24C6D2E
	EBCC25FD1EF4B66A	6269B8150084C5E5	BE913F4585AA524A	AF4C2A6889A401A2
t=47:	96F715647C35010B	5A93EC3C573AB27A	807232323213D257	75B6F991523D6EBD
	3DB3985131165CA8	EBCC25FD1EF4B66A	6269B8150084C5E5	BE913F4585AA524A
t=48:	A493F38FA8BD1B7A	96F715647C35010B	5A93EC3C573AB27A	807232323213D257
	72B27DF2E6E57AA8	3DB3985131165CA8	EBCC25FD1EF4B66A	6269B8150084C5E5
t=49:	D379E2742808F23F	A493F38FA8BD1B7A	96F715647C35010B	5A93EC3C573AB27A
	3EA89437C88CCD1E	72B27DF2E6E57AA8	3DB3985131165CA8	EBCC25FD1EF4B66A
t=50:	8C0C28392DFEEDF0	D379E2742808F23F	A493F38FA8BD1B7A	96F715647C35010B
	ECCF127AA015E2F4	3EA89437C88CCD1E	72B27DF2E6E57AA8	3DB3985131165CA8
t=51:	1D5955ABCFCADF0	8C0C28392DFEEDF0	D379E2742808F23F	A493F38FA8BD1B7A
	496BCDAFE07B21B5	ECCF127AA015E2F4	3EA89437C88CCD1E	72B27DF2E6E57AA8
t=52:	5799F02F81A7C51F	1D5955ABCFCADF0	8C0C28392DFEEDF0	D379E2742808F23F
	0532365FC98E332C	496BCDAFE07B21B5	ECCF127AA015E2F4	3EA89437C88CCD1E
t=53:	D09E98B45E7412B7	5799F02F81A7C51F	1D5955ABCFCADF0	8C0C28392DFEEDF0
	E1E81BC465A7CA13	0532365FC98E332C	496BCDAFE07B21B5	ECCF127AA015E2F4
t=54:	B404CE9F5B35EB6E	D09E98B45E7412B7	5799F02F81A7C51F	1D5955ABCFCADF0
	52165E3326D1452E	E1E81BC465A7CA13	0532365FC98E332C	496BCDAFE07B21B5
t=55:	8FE543A7E1C7DE6B	B404CE9F5B35EB6E	D09E98B45E7412B7	5799F02F81A7C51F
	7D7C18AE2648F54D	52165E3326D1452E	E1E81BC465A7CA13	0532365FC98E332C
t=56:	BF53B7992F425D82	8FE543A7E1C7DE6B	B404CE9F5B35EB6E	D09E98B45E7412B7
	D6993E728AC1A822	7D7C18AE2648F54D	52165E3326D1452E	E1E81BC465A7CA13
t=57:	A7FC20CC2822A712	BF53B7992F425D82	8FE543A7E1C7DE6B	B404CE9F5B35EB6E
	2BA925F0BBBDA744	D6993E728AC1A822	7D7C18AE2648F54D	52165E3326D1452E
t=58:	1F5B9E4E9E470F85	A7FC20CC2822A712	BF53B7992F425D82	8FE543A7E1C7DE6B
	12F8ABBFDC71F41	2BA925F0BBBDA744	D6993E728AC1A822	7D7C18AE2648F54D
t=59:	1F4AC7E8968E01F9	1F5B9E4E9E470F85	A7FC20CC2822A712	BF53B7992F425D82
	10F69F1491C21C9C	12F8ABBFDC71F41	2BA925F0BBBDA744	D6993E728AC1A822
t=60:	0B00107983688DD	1F4AC7E8968E01F9	1F5B9E4E9E470F85	A7FC20CC2822A712
	0E8ABD59D36488D2	10F69F1491C21C9C	12F8ABBFDC71F41	2BA925F0BBBDA744
t=61:	05774F6D8337D0DF	0B00107983688DD	1F4AC7E8968E01F9	1F5B9E4E9E470F85
	E8D4AA14CC35666E	0E8ABD59D36488D2	10F69F1491C21C9C	12F8ABBFDC71F41
t=62:	0E8748C473D5D319	05774F6D8337D0DF	0B00107983688DD	1F4AC7E8968E01F9
	95EA094366CA9524	E8D4AA14CC35666E	0E8ABD59D36488D2	10F69F1491C21C9C
t=63:	37313BCC31405DD8	0E8748C473D5D319	05774F6D8337D0DF	0B00107983688DD
	9E24CC56AA903D0D	95EA094366CA9524	E8D4AA14CC35666E	0E8ABD59D36488D2
t=64:	75CAD73882574762	37313BCC31405DD8	0E8748C473D5D319	05774F6D8337D0DF
	F95C519703B8731F	9E24CC56AA903D0D	95EA094366CA9524	E8D4AA14CC35666E
t=65:	7D4BF508527DF4FA	75CAD73882574762	37313BCC31405DD8	0E8748C473D5D319
	D65ADF389D2C1A99	F95C519703B8731F	9E24CC56AA903D0D	95EA094366CA9524
t=66:	CEEFB640F1F288C3	7D4BF508527DF4FA	75CAD73882574762	37313BCC31405DD8
	44463E8C945BCBB5	D65ADF389D2C1A99	F95C519703B8731F	9E24CC56AA903D0D
t=67:	FC11CC97AE386106	CEEFB640F1F288C3	7D4BF508527DF4FA	75CAD73882574762
	12BF463D7223A309	44463E8C945BCBB5	D65ADF389D2C1A99	F95C519703B8731F
t=68:	DAF7189BF71319ED	FC11CC97AE386106	CEEFB640F1F288C3	7D4BF508527DF4FA
	2D2182E71310E6C7	12BF463D7223A309	44463E8C945BCBB5	D65ADF389D2C1A99
t=69:	51A81CBBFD3F7751	DAF7189BF71319ED	FC11CC97AE386106	CEEFB640F1F288C3
	34E0F69B5611C0DC	2D2182E71310E6C7	12BF463D7223A309	44463E8C945BCBB5
t=70:	A26F13B306B9736B	51A81CBBFD3F7751	DAF7189BF71319ED	FC11CC97AE386106

	3D6AD7280D27EE41	34E0F69B5611C0DC	2D2182E71310E6C7	12BF463D7223A309
t=71:	93D2426FE4F65643	A26F13B306B9736B	51A81CBBFD3F7751	DAF7189BF71319ED
	F0C0DDC582C521E5	3D6AD7280D27EE41	34E0F69B5611C0DC	2D2182E71310E6C7
t=72:	AB4641C14C9D350B	93D2426FE4F65643	A26F13B306B9736B	51A81CBBFD3F7751
	88C22A9BFFF9C4D4	F0C0DDC582C521E5	3D6AD7280D27EE41	34E0F69B5611C0DC
t=73:	C7643EF265E0846D	AB4641C14C9D350B	93D2426FE4F65643	A26F13B306B9736B
	5D58F038D47F838C	88C22A9BFFF9C4D4	F0C0DDC582C521E5	3D6AD7280D27EE41
t=74:	0666E64633871262	C7643EF265E0846D	AB4641C14C9D350B	93D2426FE4F65643
	01D41045F938489B	5D58F038D47F838C	88C22A9BFFF9C4D4	F0C0DDC582C521E5
t=75:	126BCBCF100F86E6	0666E64633871262	C7643EF265E0846D	AB4641C14C9D350B
	E5DFBAE06B85B880	01D41045F938489B	5D58F038D47F838C	88C22A9BFFF9C4D4
t=76:	4AAA7A17AEA6C466	126BCBCF100F86E6	0666E64633871262	C7643EF265E0846D
	94AE3C3D5BB9D976	E5DFBAE06B85B880	01D41045F938489B	5D58F038D47F838C
t=77:	C12F185AC5A8BBF5	4AAA7A17AEA6C466	126BCBCF100F86E6	0666E64633871262
	578FB21004694EF1	94AE3C3D5BB9D976	E5DFBAE06B85B880	01D41045F938489B
t=78:	FBD8CA13A30018E9	C12F185AC5A8BBF5	4AAA7A17AEA6C466	126BCBCF100F86E6
	61A99523C8A086DB	578FB21004694EF1	94AE3C3D5BB9D976	E5DFBAE06B85B880
t=79:	30D36C91856827CD	FBD8CA13A30018E9	C12F185AC5A8BBF5	4AAA7A17AEA6C466
	780D55B8DD49F3A4	61A99523C8A086DB	578FB21004694EF1	94AE3C3D5BB9D976

H[0] = 22312194FC2BF72C + 30D36C91856827CD = 53048E2681941EF9  
H[1] = 9F555FA3C84C64C2 + FBD8CA13A30018E9 = 9B2E29B76B4C7DAB  
H[2] = 2393B86B6F53B151 + C12F185AC5A8BBF5 = E4C2D0C634FC6D46  
H[3] = 963877195940EABD + 4AAA7A17AEA6C466 = E0E2F13107E7AF23  
H[4] = 96283EE2A88EFFE3 + 780D55B8DD49F3A4 = 0E35949B85D8F387  
H[5] = BE5E1E2553863992 + 61A99523C8A086DB = 2007B3491C26C06D  
H[6] = 2B0199FC2C85B8AA + 578FB21004694EF1 = 82914C0C30EF079B  
H[7] = 0EB72DDC81C52CA2 + 94AE3C3D5BB9D976 = A3656A19DD7F0618

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Message Digest is 53048E26 81941EF9  
9B2E29B7 6B4C7DAB E4C2D0C6 34FC6D46 E0E2F131 07E7AF23

=====

Two Block Message Sample

Input Message:  
"abcdefghijklmnopqrsrstu"

=====

Initial hash value:  
H[0] = 22312194FC2BF72C  
H[1] = 9F555FA3C84C64C2  
H[2] = 2393B86B6F53B151  
H[3] = 963877195940EABD  
H[4] = 96283EE2A88EFFE3  
H[5] = BE5E1E2553863992  
H[6] = 2B0199FC2C85B8AA  
H[7] = 0EB72DDC81C52CA2

=====

Block Contents:  
W[ 0] = 6162636465666768  
W[ 1] = 6263646566676869

W[ 2] = 636465666768696A  
 W[ 3] = 6465666768696A6B  
 W[ 4] = 65666768696A6B6C  
 W[ 5] = 666768696A6B6C6D  
 W[ 6] = 6768696A6B6C6D6E  
 W[ 7] = 68696A6B6C6D6E6F  
 W[ 8] = 696A6B6C6D6E6F70  
 W[ 9] = 6A6B6C6D6E6F7071  
 W[10] = 6B6C6D6E6F707172  
 W[11] = 6C6D6E6F70717273  
 W[12] = 6D6E6F7071727374  
 W[13] = 6E6F707172737475  
 W[14] = 8000000000000000  
 W[15] = 0000000000000000

	A/E	B/F	C/G	D/H
t= 0:	9A2F6CF628FAC066 3908D1842215827A	22312194FC2BF72C 96283EE2A88EFFE3	9F555FA3C84C64C2 BE5E1E2553863992	2393B86B6F53B151 2B0199FC2C85B8AA
t= 1:	C45A73DC29847669 63F57A9FE723F8CE	9A2F6CF628FAC066 3908D1842215827A	22312194FC2BF72C 96283EE2A88EFFE3	9F555FA3C84C64C2 BE5E1E2553863992
t= 2:	8C3630D3B59711CE 7EDABAB86DFF6A52	C45A73DC29847669 63F57A9FE723F8CE	9A2F6CF628FAC066 3908D1842215827A	22312194FC2BF72C 96283EE2A88EFFE3
t= 3:	17BDDFF848E242E2F 9A30B98A6342E77F	8C3630D3B59711CE 7EDABAB86DFF6A52	C45A73DC29847669 63F57A9FE723F8CE	9A2F6CF628FAC066 3908D1842215827A
t= 4:	81C23A1F69565E3C CEDB921A04ACEBDD	17BDDFF848E242E2F 9A30B98A6342E77F	8C3630D3B59711CE 7EDABAB86DFF6A52	C45A73DC29847669 63F57A9FE723F8CE
t= 5:	6E79DFE5A559E037 3B3B402EDC778D6D	81C23A1F69565E3C CEDB921A04ACEBDD	17BDDFF848E242E2F 9A30B98A6342E77F	8C3630D3B59711CE 7EDABAB86DFF6A52
t= 6:	C39CC278160B5678 50562B0ACB6E7FEB	6E79DFE5A559E037 3B3B402EDC778D6D	81C23A1F69565E3C CEDB921A04ACEBDD	17BDDFF848E242E2F 9A30B98A6342E77F
t= 7:	8A78B495684D9DD1 494234DDD86A4729	C39CC278160B5678 50562B0ACB6E7FEB	6E79DFE5A559E037 3B3B402EDC778D6D	81C23A1F69565E3C CEDB921A04ACEBDD
t= 8:	24DF431236CE4D30 E80E84E515D941E1	8A78B495684D9DD1 494234DDD86A4729	C39CC278160B5678 50562B0ACB6E7FEB	6E79DFE5A559E037 3B3B402EDC778D6D
t= 9:	7E090CEB07F8BEE9 A46B4DEC5278E24F	24DF431236CE4D30 E80E84E515D941E1	8A78B495684D9DD1 494234DDD86A4729	C39CC278160B5678 50562B0ACB6E7FEB
t=10:	A755CCD779F18FA9 D41F5A6BFB41A89D	7E090CEB07F8BEE9 A46B4DEC5278E24F	24DF431236CE4D30 E80E84E515D941E1	8A78B495684D9DD1 494234DDD86A4729
t=11:	CA6A3AEEEF5311EA 3EEE2841CFE10A37	A755CCD779F18FA9 D41F5A6BFB41A89D	7E090CEB07F8BEE9 A46B4DEC5278E24F	24DF431236CE4D30 E80E84E515D941E1
t=12:	2885EE23B748F692 CBE0A750BC77AFB9	CA6A3AEEEF5311EA 3EEE2841CFE10A37	A755CCD779F18FA9 D41F5A6BFB41A89D	7E090CEB07F8BEE9 A46B4DEC5278E24F
t=13:	388A03C85D575053 2E195C603FCFE523	2885EE23B748F692 CBE0A750BC77AFB9	CA6A3AEEEF5311EA 3EEE2841CFE10A37	A755CCD779F18FA9 D41F5A6BFB41A89D
t=14:	E3E1C3D9B4C75FAB 1012E63E4E71F612	388A03C85D575053 2E195C603FCFE523	2885EE23B748F692 CBE0A750BC77AFB9	CA6A3AEEEF5311EA 3EEE2841CFE10A37
t=15:	4215C380CC7BA71B 51D096BA7563D388	E3E1C3D9B4C75FAB 1012E63E4E71F612	388A03C85D575053 2E195C603FCFE523	2885EE23B748F692 CBE0A750BC77AFB9
t=16:	D4B2ECE1F9EA4139 A57AA8000D7E7D45	4215C380CC7BA71B 51D096BA7563D388	E3E1C3D9B4C75FAB 1012E63E4E71F612	388A03C85D575053 2E195C603FCFE523
t=17:	A83038B321E1282C FADB216834A22046	D4B2ECE1F9EA4139 A57AA8000D7E7D45	4215C380CC7BA71B 51D096BA7563D388	E3E1C3D9B4C75FAB 1012E63E4E71F612
t=18:	871C3F72FFF75168 FAA41018DA73AA6B	A83038B321E1282C FADB216834A22046	D4B2ECE1F9EA4139 A57AA8000D7E7D45	4215C380CC7BA71B 51D096BA7563D388
t=19:	09CDADF5B09E542C 223C0812022BF992	871C3F72FFF75168 FAA41018DA73AA6B	A83038B321E1282C FADB216834A22046	D4B2ECE1F9EA4139 A57AA8000D7E7D45
t=20:	A70D03F8958F9BA4 63FFC78316C85D34	09CDADF5B09E542C 223C0812022BF992	871C3F72FFF75168 FAA41018DA73AA6B	A83038B321E1282C FADB216834A22046
t=21:	EC07BC6D3DE528B1 8079819B99C99A41	A70D03F8958F9BA4 63FFC78316C85D34	09CDADF5B09E542C 223C0812022BF992	871C3F72FFF75168 FAA41018DA73AA6B
t=22:	8F21796FE4B51BD0 1DDFFF81567B2DE4	EC07BC6D3DE528B1 8079819B99C99A41	A70D03F8958F9BA4 63FFC78316C85D34	09CDADF5B09E542C 223C0812022BF992

t=23: 9F6F64FCB4C926E7 8F21796FE4B51BD0 EC07BC6D3DE528B1 A70D03F8958F9BA4  
8C8247B93F00D50C 1DDFFF81567B2DE4 8079819B99C99A41 63FFC78316C85D34  
t=24: D03596038CD63118 9F6F64FCB4C926E7 8F21796FE4B51BD0 EC07BC6D3DE528B1  
4F5168008F6D598E 8C8247B93F00D50C 1DDFFF81567B2DE4 8079819B99C99A41  
t=25: 338B31422B132F48 D03596038CD63118 9F6F64FCB4C926E7 8F21796FE4B51BD0  
571E4796BD2EB595 4F5168008F6D598E 8C8247B93F00D50C 1DDFFF81567B2DE4  
t=26: F13D1863C7906343 338B31422B132F48 D03596038CD63118 9F6F64FCB4C926E7  
2D8F44815B3B89BB 571E4796BD2EB595 4F5168008F6D598E 8C8247B93F00D50C  
t=27: 92FCCCA21D8FBF2B F13D1863C7906343 338B31422B132F48 D03596038CD63118  
F1C21531DA4A08B6 2D8F44815B3B89BB 571E4796BD2EB595 4F5168008F6D598E  
t=28: 05F58CDABBF55813 92FCCCA21D8FBF2B F13D1863C7906343 338B31422B132F48  
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t=34: ABF4003C5B5F7017 AFB7E1D8C7F831C4 A5F2FAA00D8A8747 1A0CC3AD581C10FE  
28A6C03E6C2A4898 564993F74B0AD9F5 F025CE5716C796CD 56A84040EEE67BF6  
t=35: 4F2CB708B47DCE20 ABF4003C5B5F7017 AFB7E1D8C7F831C4 A5F2FAA00D8A8747  
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t=38: DC7BFE1851A2E81B 27DD63A534C4822E EBA175A8080AA725 4F2CB708B47DCE20  
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t=39: 6D07C2C7A947167B DC7BFE1851A2E81B 27DD63A534C4822E EBA175A8080AA725  
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t=40: 8CC57E961CE1F956 6D07C2C7A947167B DC7BFE1851A2E81B 27DD63A534C4822E  
1994E5B3F53E4AF2 8D5583BD4628586D CDB1FB3ED046F991 1938417C593488CC  
t=41: 8C6947F81E1FD94A 8CC57E961CE1F956 6D07C2C7A947167B DC7BFE1851A2E81B  
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t=45: EFD4BD2F26343181 80545AD9644D1756 03BDE346FD50DCCD DDB8B34228A61CD0  
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t=46: 64624F7253A389BE EFD4BD2F26343181 80545AD9644D1756 03BDE346FD50DCCD  
C9C38B4792943C06 4B766751CFBFA62 97BC9BD263E1FC6C 5FC3283C3C91B062  
t=47: 3E8CF0C51B035FE0 64624F7253A389BE EFD4BD2F26343181 80545AD9644D1756  
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t=51: 4F16072F816AA7A1 7953E11357EBE4CF 4A994A1444767A2C C91687936637EB79  
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t=52: A801F1AAC9415393 4F16072F816AA7A1 7953E11357EBE4CF 4A994A1444767A2C  
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t=53: A223D983EBA809A8 A801F1AAC9415393 4F16072F816AA7A1 7953E11357EBE4CF  
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t=54:	080BBDDE727385E5 8F9E0452A5063D26	A223D983EBA809A8 0FD152F32163372C	A801F1AAC9415393 7C132F7309D27922	4F16072F816AA7A1 B6A3D2D3805DCE61
t=55:	03A460537E8B4F1E A37615D60BEBFCF33	080BBDDE727385E5 8F9E0452A5063D26	A223D983EBA809A8 0FD152F32163372C	A801F1AAC9415393 7C132F7309D27922
t=56:	1BB7A154850F075F 2FAA64724CFCF763	03A460537E8B4F1E A37615D60BEBFCF33	080BBDDE727385E5 8F9E0452A5063D26	A223D983EBA809A8 0FD152F32163372C
t=57:	AB80BABC87BB7A16 694348C139B7EA00	1BB7A154850F075F 2FAA64724CFCF763	03A460537E8B4F1E A37615D60BEBFCF33	080BBDDE727385E5 8F9E0452A5063D26
t=58:	8C0E0DB97B2D9C9F 651F222826594F54	AB80BABC87BB7A16 694348C139B7EA00	1BB7A154850F075F 2FAA64724CFCF763	03A460537E8B4F1E A37615D60BEBFCF33
t=59:	3A4EAE7FE4699540 13876F30BECA815D	8C0E0DB97B2D9C9F 651F222826594F54	AB80BABC87BB7A16 694348C139B7EA00	1BB7A154850F075F 2FAA64724CFCF763
t=60:	BB7C0F789EA3699C ECD91F96127B03A8	3A4EAE7FE4699540 13876F30BECA815D	8C0E0DB97B2D9C9F 651F222826594F54	AB80BABC87BB7A16 694348C139B7EA00
t=61:	FE629FDEE04ED549 B2F245A1C977A57A	BB7C0F789EA3699C ECD91F96127B03A8	3A4EAE7FE4699540 13876F30BECA815D	8C0E0DB97B2D9C9F 651F222826594F54
t=62:	A419197F10A2F082 747A1B529D1718B3	FE629FDEE04ED549 B2F245A1C977A57A	BB7C0F789EA3699C ECD91F96127B03A8	3A4EAE7FE4699540 13876F30BECA815D
t=63:	12D940B29B43FCAC 5E88DDC8012ABCC8	A419197F10A2F082 747A1B529D1718B3	FE629FDEE04ED549 B2F245A1C977A57A	BB7C0F789EA3699C ECD91F96127B03A8
t=64:	60F835EA7AE7A3B1 EE41795118402F41	12D940B29B43FCAC 5E88DDC8012ABCC8	A419197F10A2F082 747A1B529D1718B3	FE629FDEE04ED549 B2F245A1C977A57A
t=65:	5448E39ABC8584E0 4D9C54C24C73C5D3	60F835EA7AE7A3B1 EE41795118402F41	12D940B29B43FCAC 5E88DDC8012ABCC8	A419197F10A2F082 747A1B529D1718B3
t=66:	3FF824D6D11EDF6C 4138B86695C59AC4	5448E39ABC8584E0 4D9C54C24C73C5D3	60F835EA7AE7A3B1 EE41795118402F41	12D940B29B43FCAC 5E88DDC8012ABCC8
t=67:	6E96137693191EDF 046EB1A80DD1DF9A	3FF824D6D11EDF6C 4138B86695C59AC4	5448E39ABC8584E0 4D9C54C24C73C5D3	60F835EA7AE7A3B1 EE41795118402F41
t=68:	EC2D31E61214BDF6 55DBAB7D6FC52329	6E96137693191EDF 046EB1A80DD1DF9A	5448E39ABC8584E0 4D9C54C24C73C5D3	60F835EA7AE7A3B1 EE41795118402F41
t=69:	7E0F0C8461660735 F9B0E4BFF6CEE39C	EC2D31E61214BDF6 55DBAB7D6FC52329	6E96137693191EDF 046EB1A80DD1DF9A	5448E39ABC8584E0 4D9C54C24C73C5D3
t=70:	D29A895ED31B66BB 9D885DBABB9710B2	7E0F0C8461660735 F9B0E4BFF6CEE39C	EC2D31E61214BDF6 55DBAB7D6FC52329	6E96137693191EDF 046EB1A80DD1DF9A
t=71:	AE123510491AC45C E5C2B9E1DE72B8DC	D29A895ED31B66BB 9D885DBABB9710B2	7E0F0C8461660735 F9B0E4BFF6CEE39C	EC2D31E61214BDF6 55DBAB7D6FC52329
t=72:	AABC342629053FFB F55697A28603BF8A	AE123510491AC45C E5C2B9E1DE72B8DC	D29A895ED31B66BB 9D885DBABB9710B2	7E0F0C8461660735 F9B0E4BFF6CEE39C
t=73:	0573072E1BF3F98C 82A724607E0562C3	AABC342629053FFB F55697A28603BF8A	AE123510491AC45C E5C2B9E1DE72B8DC	D29A895ED31B66BB 9D885DBABB9710B2
t=74:	54404FE2C42230FE 12B422CB3FC344B9	0573072E1BF3F98C 82A724607E0562C3	AABC342629053FFB F55697A28603BF8A	AE123510491AC45C E5C2B9E1DE72B8DC
t=75:	71ADA568EFBA8B62 E4AC0B9801F5A875	54404FE2C42230FE 12B422CB3FC344B9	0573072E1BF3F98C 82A724607E0562C3	AABC342629053FFB F55697A28603BF8A
t=76:	FF078089585319D0 42C94B5B6F533B3F	71ADA568EFBA8B62 E4AC0B9801F5A875	54404FE2C42230FE 12B422CB3FC344B9	0573072E1BF3F98C 82A724607E0562C3
t=77:	C555881BC0EDEBCD 942D0C18A267E3B1	FF078089585319D0 42C94B5B6F533B3F	71ADA568EFBA8B62 E4AC0B9801F5A875	54404FE2C42230FE 12B422CB3FC344B9
t=78:	2C666488FF634DC6 C23D16693B02AA5A	C555881BC0EDEBCD 942D0C18A267E3B1	FF078089585319D0 42C94B5B6F533B3F	71ADA568EFBA8B62 E4AC0B9801F5A875
t=79:	6BA87D1B8505285F 17FBD871DB354C99	2C666488FF634DC6 C23D16693B02AA5A	C555881BC0EDEBCD 942D0C18A267E3B1	FF078089585319D0 42C94B5B6F533B3F

$H[0] = 22312194FC2BF72C + 6BA87D1B8505285F = 8DD99EB081311F8B$   
 $H[1] = 9F555FA3C84C64C2 + 2C666488FF634DC6 = CBBBC42CC7AFB288$   
 $H[2] = 2393886B6F53B151 + C555881BC0EDEBCD = E8E9408730419D1E$   
 $H[3] = 963877195940EABD + FF078089585319D0 = 953FF7A2B194048D$   
 $H[4] = 96283EE2A88EFEE3 + 17FBD871DB354C99 = AE24175483C44C7C$   
 $H[5] = BE5E1E2553863992 + C23D16693B02AA5A = 809B348E8E88E3EC$   
 $H[6] = 2B0199FC2C85B8AA + 942D0C18A267E3B1 = BF2EA614CEED9C5B$   
 $H[7] = 0EB72DDC81C52CA2 + 42C94B5B6F533B3F = 51807937F11867E1$

Block Contents:

W[ 0] = 0000000000000000  
W[ 1] = 0000000000000000  
W[ 2] = 0000000000000000  
W[ 3] = 0000000000000000  
W[ 4] = 0000000000000000  
W[ 5] = 0000000000000000  
W[ 6] = 0000000000000000  
W[ 7] = 0000000000000000  
W[ 8] = 0000000000000000  
W[ 9] = 0000000000000000  
W[10] = 0000000000000000  
W[11] = 0000000000000000  
W[12] = 0000000000000000  
W[13] = 0000000000000000  
W[14] = 0000000000000000  
W[15] = 0000000000000380

	A/E	B/F	C/G	D/H
t= 0:	CA1B701EA8D10380 4301C5B7AF4F28EA	8DD99EB081311F8B AE24175483C44C7C	CBBBC42CC7AFB288 809B348E8E88E3EC	E8E9408730419D1E BF2EA614CEED9C5B
t= 1:	4B560A3D9D8BA236 4E2D9B9CB97640BF	CA1B701EA8D10380 4301C5B7AF4F28EA	8DD99EB081311F8B AE24175483C44C7C	CBBBC42CC7AFB288 809B348E8E88E3EC
t= 2:	052AFD3A52839A12 40A7CA7D457EBBD6	4B560A3D9D8BA236 4E2D9B9CB97640BF	CA1B701EA8D10380 4301C5B7AF4F28EA	8DD99EB081311F8B AE24175483C44C7C
t= 3:	6D6469537181FB59 E7E74F3462405FC1	052AFD3A52839A12 40A7CA7D457EBBD6	4B560A3D9D8BA236 4E2D9B9CB97640BF	CA1B701EA8D10380 4301C5B7AF4F28EA
t= 4:	67D25B0D1D465E19 81EA993A34CE5FD6	6D6469537181FB59 E7E74F3462405FC1	052AFD3A52839A12 40A7CA7D457EBBD6	4B560A3D9D8BA236 4E2D9B9CB97640BF
t= 5:	CE2D2DCA6276189B 2B11C440985F5E14	67D25B0D1D465E19 81EA993A34CE5FD6	6D6469537181FB59 E7E74F3462405FC1	052AFD3A52839A12 40A7CA7D457EBBD6
t= 6:	C304AE7968FA6276 2D925EBD2371D4E0	CE2D2DCA6276189B 2B11C440985F5E14	67D25B0D1D465E19 81EA993A34CE5FD6	6D6469537181FB59 E7E74F3462405FC1
t= 7:	A2F2F352C45E6B92 2209E227605C477C	C304AE7968FA6276 2D925EBD2371D4E0	CE2D2DCA6276189B 2B11C440985F5E14	67D25B0D1D465E19 81EA993A34CE5FD6
t= 8:	B6408732E17EF2BF 0A7493CBFB707A28	A2F2F352C45E6B92 2209E227605C477C	C304AE7968FA6276 2D925EBD2371D4E0	CE2D2DCA6276189B 2B11C440985F5E14
t= 9:	E5A29310956CF4B0 471CAEB6206FD6A9	B6408732E17EF2BF 0A7493CBFB707A28	A2F2F352C45E6B92 2209E227605C477C	C304AE7968FA6276 2D925EBD2371D4E0
t=10:	619A643B60A72678 2AFDCFD70197C551	E5A29310956CF4B0 471CAEB6206FD6A9	B6408732E17EF2BF 0A7493CBFB707A28	A2F2F352C45E6B92 2209E227605C477C
t=11:	12E090BCE773988C 2BB61C87D95F1EF6	619A643B60A72678 2AFDCFD70197C551	E5A29310956CF4B0 471CAEB6206FD6A9	B6408732E17EF2BF 0A7493CBFB707A28
t=12:	844745BEB54BB38D A1B9B2E57ECE02D4	12E090BCE773988C 2BB61C87D95F1EF6	619A643B60A72678 2AFDCFD70197C551	E5A29310956CF4B0 471CAEB6206FD6A9
t=13:	728E0FF0A633641C D2EB1AE617CFA231	844745BEB54BB38D A1B9B2E57ECE02D4	12E090BCE773988C 2BB61C87D95F1EF6	619A643B60A72678 2AFDCFD70197C551
t=14:	4294C9F0701FB711 E5722A671CACCC14	728E0FF0A633641C D2EB1AE617CFA231	844745BEB54BB38D A1B9B2E57ECE02D4	12E090BCE773988C 2BB61C87D95F1EF6
t=15:	1EB995845896146C F1F73492308170F3	4294C9F0701FB711 E5722A671CACCC14	12E090BCE773988C D2EB1AE617CFA231	619A643B60A72678 2AFDCFD70197C551
t=16:	2B4D4009404447A0 C50207E5516E7902	1EB995845896146C F1F73492308170F3	4294C9F0701FB711 E5722A671CACCC14	12E090BCE773988C D2EB1AE617CFA231
t=17:	7EE24648DA164A4F 9FFCB15331E1CD35	2B4D4009404447A0 C50207E5516E7902	1EB995845896146C F1F73492308170F3	4294C9F0701FB711 E5722A671CACCC14
t=18:	0D7915D334E98931 08CF80CA9D91C843	7EE24648DA164A4F 9FFCB15331E1CD35	2B4D4009404447A0 C50207E5516E7902	1EB995845896146C F1F73492308170F3
t=19:	7156E5D603D6D2C9 3ADC14C21552B1A8	0D7915D334E98931 08CF80CA9D91C843	7EE24648DA164A4F 9FFCB15331E1CD35	2B4D4009404447A0 C50207E5516E7902
t=20:	1DA99E1A512119C7	7156E5D603D6D2C9	0D7915D334E98931	7EE24648DA164A4F

B9E562D0A2B54D40 3ADC14C21552B1A8 0ACF80CA9D91C843 9FFCB15331E1CD35  
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t=23: B836D5F127D2FDB8 3FDC41AC384A3129 1FB878880EF4B5E4 1DA99E1A512119C7  
3714588332FCEC71 32B0C09234E84242 CE2590CB43609153 B9E562D0A2B54D40  
t=24: 2EC877975A9F8116 B836D5F127D2FDB8 3FDC41AC384A3129 1FB878880EF4B5E4  
362102EAA0DD5D70 3714588332FCEC71 32B0C09234E84242 CE2590CB43609153  
t=25: 565DBE48262353B9 2EC877975A9F8116 B836D5F127D2FDB8 3FDC41AC384A3129  
E54F12F5AED463E6 362102EAA0DD5D70 3714588332FCEC71 32B0C09234E84242  
t=26: 40C91B7364704A83 565DBE48262353B9 2EC877975A9F8116 B836D5F127D2FDB8  
4656BB7233467988 E54F12F5AED463E6 362102EAA0DD5D70 3714588332FCEC71  
t=27: 53CA178C6B368158 40C91B7364704A83 565DBE48262353B9 2EC877975A9F8116  
4C67542852B3D7A1 4656BB7233467988 E54F12F5AED463E6 362102EAA0DD5D70  
t=28: 15D0571DD1178764 53CA178C6B368158 40C91B7364704A83 565DBE48262353B9  
405BD69B2C905BD7 4C67542852B3D7A1 4656BB7233467988 E54F12F5AED463E6  
t=29: 264B6149F78D1035 15D0571DD1178764 53CA178C6B368158 40C91B7364704A83  
CC414FDE2C1F1BFA 405BD69B2C905BD7 4C67542852B3D7A1 4656BB7233467988  
t=30: 9A533B7A4623C0534 264B6149F78D1035 15D0571DD1178764 53CA178C6B368158  
2C551E8A8C2C7434 CC414FDE2C1F1BFA 405BD69B2C905BD7 4C67542852B3D7A1  
t=31: 3CCB61788641971E 9A33B7A4623C0534 264B6149F78D1035 15D0571DD1178764  
06B6D7E811D72282 2C551E8A8C2C7434 CC414FDE2C1F1BFA 405BD69B2C905BD7  
t=32: 73152319D664AB4D 3CCB61788641971E 9A33B7A4623C0534 264B6149F78D1035  
961481C44171C469 06B6D7E811D72282 2C551E8A8C2C7434 CC414FDE2C1F1BFA  
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t=79:	AB4F42D47A55716D	751E755B4A6D7F36	7CE25CB7C7FD48F6	DAAAD0BF300751AD
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 $H[3] = 953FF7A2B194048D + DAAAD0BF300751AD = 6FEAC861E19B563A$

H[4] = AE24175483C44C7C + 22CA23DE9BE67C24 = D0EE3B331FAAC8A0  
H[5] = 809B348E8E88E3EC + CB9D209C7B0DEB01 = 4C38552B0996CEED  
H[6] = BF2EA614CEED9C5B + 69A9F1B43ECA54F4 = 28D897C90DB7F14F  
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Message Digest is

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