- h0 = 01100111010001010010001100000001
- h1 = 11101111110011011010101110001001
- h2 = 10011000101110101101110011111110
- h3 = 00010000001100100101010001110110
- h4 = 11000011110100101110000111110000

Input Text:
kareem

Each Letter:

- k
- a
- r
- e
- e
- m
-

Text to ASCII

- 107
- 97
- 114
- 101
- 101
- 109
- 32

ASCII to Binary

- 01101011
- 01100001
- 01110010
- 01100101
- 01100101
- 01101101
- 00100000

Message:
01101011011000010111001001100101011001010110110100100000

Append "1":
011010110110000101110010011001010110010101101101001000001

Append 391 "0's" to make message 448 mod 512:
011010110110000101110010011001010110010101101101001000001000000000000000000000000000000000-
0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000-

0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000-
0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000-
0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000-
000

Append Original Length(111000) in 64 bits:
0110101101100001011100100110010101100101011011010010000010000000000000000000000000000000-
0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000-
0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000-
0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000-
0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000-
000000000000000000000000000000000000000000000000000000000000000000000000000111000

"Chunk" 0:
0110101101100001011100100110010101100101011011010010000010000000000000000000000000000000-
0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000-
0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000-
0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000-
0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000-
0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000111000

Split into 16 words:

- 0: 01101011011000010111001001100101
- 1: 01100101011011010010000010000000
- 2: 00000000000000000000000000000000
- 3: 00000000000000000000000000000000
- 4: 00000000000000000000000000000000
- 5: 00000000000000000000000000000000
- 6: 00000000000000000000000000000000
- 7: 00000000000000000000000000000000
- 8: 00000000000000000000000000000000
- 9: 00000000000000000000000000000000
- 10: 00000000000000000000000000000000
- 11: 00000000000000000000000000000000
- 12: 00000000000000000000000000000000
- 13: 00000000000000000000000000000000
- 14: 00000000000000000000000000000000
- 15: 00000000000000000000000000111000

Extend into 80 words:

00000000000000000000000000000000
:word 13
00000000000000000000000000000000
:word 8

:word 13 XOR word 8
00000000000000000000000000000000
:Out

00000000000000000000000000000000
:word 13 XOR word 8
00000000000000000000000000000000
:word 2

:(word 13 XOR word 8) XOR word 2
00000000000000000000000000000000
:Out

00000000000000000000000000000000
:(word 13 XOR word 8) XOR word 2
01101011011000010111001001100101
:word 0

:((word 13 XOR word 8) XOR word 2) XOR word 0
01101011011000010111001001100101
:Out

11010110110000101110010011001010
:Left Rotated 1

11010110110000101110010011001010
:Word 16

00000000000000000000000000000000
:word 14
00000000000000000000000000000000
:word 9

:word 14 XOR word 9
00000000000000000000000000000000
:Out

00000000000000000000000000000000
:word 14 XOR word 9
00000000000000000000000000000000
:word 3

:(word 14 XOR word 9) XOR word 3
00000000000000000000000000000000
:Out

00000000000000000000000000000000
:(word 14 XOR word 9) XOR word 3
01100101011011010010000010000000
:word 1

:((word 14 XOR word 9) XOR word 3) XOR word 1
01100101011011010010000010000000
:Out

11001010110110100100000100000000
:Left Rotated 1

11001010110110100100000100000000
:Word 17

00000000000000000000000000111000
:word 15
00000000000000000000000000000000
:word 10

:word 15 XOR word 10
00000000000000000000000000111000
:Out

00000000000000000000000000111000
:word 15 XOR word 10
00000000000000000000000000000000
:word 4

:(word 15 XOR word 10) XOR word 4
00000000000000000000000000111000
:Out

00000000000000000000000000111000
:(word 15 XOR word 10) XOR word 4
00000000000000000000000000000000
:word 2

:((word 15 XOR word 10) XOR word 4) XOR word 2
00000000000000000000000000111000
:Out

00000000000000000000000001110000
:Left Rotated 1

00000000000000000000000001110000
:Word 18

11010110110000101110010011001010
:word 16

00000000000000000000000000000000
:word 11

:word 16 XOR word 11
11010110110000101110010011001010
:Out

11010110110000101110010011001010
:word 16 XOR word 11
00000000000000000000000000000000
:word 5

:(word 16 XOR word 11) XOR word 5
11010110110000101110010011001010
:Out

11010110110000101110010011001010
:(word 16 XOR word 11) XOR word 5
00000000000000000000000000000000
:word 3

:((word 16 XOR word 11) XOR word 5) XOR word 3
11010110110000101110010011001010
:Out

10101101100001011100100110010101
:Left Rotated 1

10101101100001011100100110010101
:Word 19

11001010110110100100000100000000
:word 17
00000000000000000000000000000000
:word 12

:word 17 XOR word 12
11001010110110100100000100000000
:Out

11001010110110100100000100000000
:word 17 XOR word 12
00000000000000000000000000000000
:word 6

:(word 17 XOR word 12) XOR word 6
11001010110110100100000100000000
:Out

11001010110110100100000100000000
:(word 17 XOR word 12) XOR word 6
00000000000000000000000000000000
:word 4

:((word 17 XOR word 12) XOR word 6) XOR word 4
11001010110110100100000100000000
:Out

10010101101101001000001000000001
:Left Rotated 1

10010101101101001000001000000001
:Word 20

00000000000000000000000001110000
:word 18
00000000000000000000000000000000
:word 13

:word 18 XOR word 13
00000000000000000000000001110000
:Out

00000000000000000000000001110000
:word 18 XOR word 13
00000000000000000000000000000000
:word 7

:(word 18 XOR word 13) XOR word 7
00000000000000000000000001110000
:Out

00000000000000000000000001110000
:(word 18 XOR word 13) XOR word 7
00000000000000000000000000000000
:word 5

:((word 18 XOR word 13) XOR word 7) XOR word 5
00000000000000000000000001110000
:Out

00000000000000000000000011100000
:Left Rotated 1

00000000000000000000000011100000
:Word 21

10101101100001011100100110010101
:word 19
00000000000000000000000000000000
:word 14

:word 19 XOR word 14
10101101100001011100100110010101
:Out

10101101100001011100100110010101
:word 19 XOR word 14
00000000000000000000000000000000
:word 8

:(word 19 XOR word 14) XOR word 8
10101101100001011100100110010101
:Out

10101101100001011100100110010101
:(word 19 XOR word 14) XOR word 8
00000000000000000000000000000000
:word 6

:((word 19 XOR word 14) XOR word 8) XOR word 6
10101101100001011100100110010101
:Out

01011011000010111001001100101011
:Left Rotated 1

01011011000010111001001100101011
:Word 22

10010101101101001000001000000001
:word 20
00000000000000000000000000111000
:word 15

:word 20 XOR word 15
10010101101101001000001000111001
:Out

10010101101101001000001000111001
:word 20 XOR word 15

00000000000000000000000000000000
:word 9

:(word 20 XOR word 15) XOR word 9
10010101101101001000001000111001
:Out

10010101101101001000001000111001
:(word 20 XOR word 15) XOR word 9
00000000000000000000000000000000
:word 7

:((word 20 XOR word 15) XOR word 9) XOR word 7
10010101101101001000001000111001
:Out

00101011011010010000010001110011
:Left Rotated 1

00101011011010010000010001110011
:Word 23

00000000000000000000000011100000
:word 21
11010110110000101110010011001010
:word 16

:word 21 XOR word 16
11010110110000101110010000101010
:Out

11010110110000101110010000101010
:word 21 XOR word 16
00000000000000000000000000000000
:word 10

:(word 21 XOR word 16) XOR word 10
11010110110000101110010000101010
:Out

11010110110000101110010000101010
:(word 21 XOR word 16) XOR word 10
00000000000000000000000000000000
:word 8

:((word 21 XOR word 16) XOR word 10) XOR word 8
11010110110000101110010000101010
:Out

10101101100001011100100001010101
:Left Rotated 1

10101101100001011100100001010101
:Word 24

01011011000010111001001100101011
:word 22
11001010110110100100000100000000
:word 17

:word 22 XOR word 17
10010001110100011101001000101011
:Out

10010001110100011101001000101011
:word 22 XOR word 17
00000000000000000000000000000000
:word 11

:(word 22 XOR word 17) XOR word 11
10010001110100011101001000101011
:Out

10010001110100011101001000101011
:(word 22 XOR word 17) XOR word 11
00000000000000000000000000000000
:word 9

:((word 22 XOR word 17) XOR word 11) XOR word 9
10010001110100011101001000101011
:Out

00100011101000111010010001010111
:Left Rotated 1

00100011101000111010010001010111
:Word 25

00101011011010010000010001110011
:word 23
00000000000000000000000001110000
:word 18

:word 23 XOR word 18

00101011011010010000010000000011
:Out

00101011011010010000010000000011
:word 23 XOR word 18
00000000000000000000000000000000
:word 12

:(word 23 XOR word 18) XOR word 12
00101011011010010000010000000011
:Out

00101011011010010000010000000011
:(word 23 XOR word 18) XOR word 12
00000000000000000000000000000000
:word 10

:((word 23 XOR word 18) XOR word 12) XOR word 10
00101011011010010000010000000011
:Out

01010110110100100000100000000110
:Left Rotated 1

01010110110100100000100000000110
:Word 26

10101101100001011100100001010101
:word 24
10101101100001011100100110010101
:word 19

:word 24 XOR word 19
00000000000000000000000111000000
:Out

00000000000000000000000111000000
:word 24 XOR word 19
00000000000000000000000000000000
:word 13

:(word 24 XOR word 19) XOR word 13
00000000000000000000000111000000
:Out

00000000000000000000000111000000
:(word 24 XOR word 19) XOR word 13

00000000000000000000000000000000
:word 11

:((word 24 XOR word 19) XOR word 13) XOR word 11
00000000000000000000000111000000
:Out

00000000000000000000001110000000
:Left Rotated 1

00000000000000000000001110000000
:Word 27

00100011101000111010010001010111
:word 25
10010101101101001000001000000001
:word 20

:word 25 XOR word 20
10110110000101110010011001010110
:Out

10110110000101110010011001010110
:word 25 XOR word 20
00000000000000000000000000000000
:word 14

:(word 25 XOR word 20) XOR word 14
10110110000101110010011001010110
:Out

10110110000101110010011001010110
:(word 25 XOR word 20) XOR word 14
00000000000000000000000000000000
:word 12

:((word 25 XOR word 20) XOR word 14) XOR word 12
10110110000101110010011001010110
:Out

01101100001011100100110010101101
:Left Rotated 1

01101100001011100100110010101101
:Word 28

01010110110100100000100000000110
:word 26
00000000000000000000000011100000
:word 21

:word 26 XOR word 21
01010110110100100000100011100110
:Out

01010110110100100000100011100110
:word 26 XOR word 21
00000000000000000000000000111000
:word 15

:(word 26 XOR word 21) XOR word 15
01010110110100100000100011011110
:Out

01010110110100100000100011011110
:(word 26 XOR word 21) XOR word 15
00000000000000000000000000000000
:word 13

:((word 26 XOR word 21) XOR word 15) XOR word 13
01010110110100100000100011011110
:Out

10101101101001000001000110111100
:Left Rotated 1

10101101101001000001000110111100
:Word 29

00000000000000000000001110000000
:word 27
01011011000010111001001100101011
:word 22

:word 27 XOR word 22
01011011000010111001000010101011
:Out

01011011000010111001000010101011
:word 27 XOR word 22
11010110110000101110010011001010
:word 16

:(word 27 XOR word 22) XOR word 16

10001101110010010111010001100001
:Out

10001101110010010111010001100001
:(word 27 XOR word 22) XOR word 16
00000000000000000000000000000000
:word 14

:((word 27 XOR word 22) XOR word 16) XOR word 14
10001101110010010111010001100001
:Out

00011011100100101110100011000011
:Left Rotated 1

00011011100100101110100011000011
:Word 30

01101100001011100100110010101101
:word 28
00101011011010010000010001110011
:word 23

:word 28 XOR word 23
01000111010001110100100011011110
:Out

01000111010001110100100011011110
:word 28 XOR word 23
11001010110110100100000100000000
:word 17

:(word 28 XOR word 23) XOR word 17
10001101100111010000100111011110
:Out

10001101100111010000100111011110
:(word 28 XOR word 23) XOR word 17
00000000000000000000000000111000
:word 15

:((word 28 XOR word 23) XOR word 17) XOR word 15
10001101100111010000100111100110
:Out

00011011001110100001001111001101
:Left Rotated 1

00011011001110100001001111001101
:Word 31

10101101101001000001000110111100
:word 29
10101101100001011100100001010101
:word 24

:word 29 XOR word 24
00000000001000011101100111101001
:Out

00000000001000011101100111101001
:word 29 XOR word 24
00000000000000000000000001110000
:word 18

:(word 29 XOR word 24) XOR word 18
00000000001000011101100110011001
:Out

00000000001000011101100110011001
:(word 29 XOR word 24) XOR word 18
11010110110000101110010011001010
:word 16

:((word 29 XOR word 24) XOR word 18) XOR word 16
11010110111000110011110101010011
:Out

10101101110001100111101010100111
:Left Rotated 1

10101101110001100111101010100111
:Word 32

00011011100100101110100011000011
:word 30
00100011101000111010010001010111
:word 25

:word 30 XOR word 25
00111000001100010100110010010100
:Out

00111000001100010100110010010100
:word 30 XOR word 25
10101101100001011100100110010101
:word 19

:(word 30 XOR word 25) XOR word 19
10010101101101001000010100000001
:Out

10010101101101001000010100000001
:(word 30 XOR word 25) XOR word 19
11001010110110100100000100000000
:word 17

:((word 30 XOR word 25) XOR word 19) XOR word 17
01011111011011011100010000000001
:Out

10111110110111011000100000000010
:Left Rotated 1

10111110110111011000100000000010
:Word 33

00011011001110100001001111001101
:word 31
01010110110100100000100000000110
:word 26

:word 31 XOR word 26
01001101111010000001101111001011
:Out

01001101111010000001101111001011
:word 31 XOR word 26
10010101101101001000001000000001
:word 20

:(word 31 XOR word 26) XOR word 20
11011000010111001001100111001010
:Out

11011000010111001001100111001010
:(word 31 XOR word 26) XOR word 20
00000000000000000000000001110000
:word 18

:((word 31 XOR word 26) XOR word 20) XOR word 18

11011000010111001001100110111010
:Out

10110000101110010011001101110101
:Left Rotated 1

10110000101110010011001101110101
:Word 34

10101101110001100111101010100111
:word 32
00000000000000000000001110000000
:word 27

:word 32 XOR word 27
10101101110001100111100100100111
:Out

10101101110001100111100100100111
:word 32 XOR word 27
00000000000000000000000011100000
:word 21

:(word 32 XOR word 27) XOR word 21
10101101110001100111100111000111
:Out

10101101110001100111100111000111
:(word 32 XOR word 27) XOR word 21
10101101100001011100100110010101
:word 19

:((word 32 XOR word 27) XOR word 21) XOR word 19
00000000010000111011000001010010
:Out

00000000100001110110000010100100
:Left Rotated 1

00000000100001110110000010100100
:Word 35

10111110110111011000100000000010
:word 33
01101100001011100100110010101101
:word 28

:word 33 XOR word 28
11010010111100111100010010101111
:Out

11010010111100111100010010101111
:word 33 XOR word 28
01011011000010111001001100101011
:word 22

:(word 33 XOR word 28) XOR word 22
10001001111110000101011110000100
:Out

10001001111110000101011110000100
:(word 33 XOR word 28) XOR word 22
10010101101101001000001000000001
:word 20

:((word 33 XOR word 28) XOR word 22) XOR word 20
00011100010011001101010110000101
:Out

00111000100110011010101100001010
:Left Rotated 1

00111000100110011010101100001010
:Word 36

10110000101110010011001101110101
:word 34
10101101101001000001000110111100
:word 29

:word 34 XOR word 29
00011101000111010010001011001001
:Out

00011101000111010010001011001001
:word 34 XOR word 29
00101011011010010000010001110011
:word 23

:(word 34 XOR word 29) XOR word 23
00110110011101000010011010111010
:Out

00110110011101000010011010111010
:(word 34 XOR word 29) XOR word 23
00000000000000000000000011100000
:word 21

:((word 34 XOR word 29) XOR word 23) XOR word 21
00110110011101000010011001011010
:Out

01101100111010000100110010110100
:Left Rotated 1

01101100111010000100110010110100
:Word 37

00000000100001110110000010100100
:word 35
00011011100100101110100011000011
:word 30

:word 35 XOR word 30
00011011000101011000100001100111
:Out

00011011000101011000100001100111
:word 35 XOR word 30
10101101100001011100100001010101
:word 24

:(word 35 XOR word 30) XOR word 24
10110110100100000100000000110010
:Out

10110110100100000100000000110010
:(word 35 XOR word 30) XOR word 24
01011011000010111001001100101011
:word 22

:((word 35 XOR word 30) XOR word 24) XOR word 22
11101101100110111101001100011001
:Out

11011011001101111010011000110011
:Left Rotated 1

11011011001101111010011000110011
:Word 38

00111000100110011010101100001010
:word 36
00011011001110100001001111001101
:word 31

:word 36 XOR word 31
00100011101000111011100011000111
:Out

00100011101000111011100011000111
:word 36 XOR word 31
00100011101000111010010001010111
:word 25

:(word 36 XOR word 31) XOR word 25
00000000000000000000111001001000 0
:Out

00000000000000000000111001001000 0
:(word 36 XOR word 31) XOR word 25
00101011011010010000010001110011
:word 23

:((word 36 XOR word 31) XOR word 25) XOR word 23
00101011011010010001100011100011
:Out

01010110110100100011000111000110
:Left Rotated 1

01010110110100100011000111000110
:Word 39

01101100111010000100110010110100
:word 37
10101101110001100111101010100111
:word 32

:word 37 XOR word 32
11000001001011100011011000010011
:Out

11000001001011100011011000010011
:word 37 XOR word 32
01010110110100100000100000000110
:word 26

:(word 37 XOR word 32) XOR word 26
10010111111111000011111000010101
:Out

10010111111111000011111000010101
:(word 37 XOR word 32) XOR word 26
10101101100001011100100001010101
:word 24

:((word 37 XOR word 32) XOR word 26) XOR word 24
00111010011110011111011001000000
:Out

01110100111100111111011001000000
:Left Rotated 1

01110100111100111111011001000000
:Word 40

11011011001101111010011000110011
:word 38
10111110110111011000100000000010
:word 33

:word 38 XOR word 33
01100101111010100010111000110001
:Out

01100101111010100010111000110001
:word 38 XOR word 33
00000000000000000000001110000000
:word 27

:(word 38 XOR word 33) XOR word 27
01100101111010100010110110110001
:Out

01100101111010100010110110110001
:(word 38 XOR word 33) XOR word 27
00100011101000111010010001010111
:word 25

:((word 38 XOR word 33) XOR word 27) XOR word 25
01000110010010011000100111100110
:Out

10001100100100110001001111001100
:Left Rotated 1

10001100100100110001001111001100
:Word 41

01010110110100100011000111000110
:word 39
10110000101110010011001101110101
:word 34

:word 39 XOR word 34
11100110011010110000001010110011
:Out

11100110011010110000001010110011
:word 39 XOR word 34
01101100001011100100110010101101
:word 28

:(word 39 XOR word 34) XOR word 28
10001010010001010100111000011110
:Out

10001010010001010100111000011110
:(word 39 XOR word 34) XOR word 28
01010110110100100000100000000110
:word 26

:((word 39 XOR word 34) XOR word 28) XOR word 26
11011100100101110100011000011000
:Out

10111001001011101000110000110001
:Left Rotated 1

10111001001011101000110000110001
:Word 42

01110100111100111111011001000000
:word 40
00000000100001110110000010100100
:word 35

:word 40 XOR word 35
01110100011101001000110000100100
:Out

01110100011101001000110000100100
:word 40 XOR word 35
10101101101001000001000110111100
:word 29

:(word 40 XOR word 35) XOR word 29
11011001110100001001110110011000
:Out

11011001110100001001110110011000
:(word 40 XOR word 35) XOR word 29
00000000000000000000001110000000
:word 27

:((word 40 XOR word 35) XOR word 29) XOR word 27
11011001110100001001111000011000
:Out

10110011101000010011110000110001
:Left Rotated 1

10110011101000010011110000110001
:Word 43

10001100100100110001001111001100
:word 41
00111000100110011010101100001010
:word 36

:word 41 XOR word 36
10110100000010101011100011000110
:Out

10110100000010101011100011000110
:word 41 XOR word 36
00011011100100101110100011000011
:word 30

:(word 41 XOR word 36) XOR word 30
10101111100110000101000000000101
:Out

10101111100110000101000000000101
:(word 41 XOR word 36) XOR word 30
01101100001011100100110010101101
:word 28

:((word 41 XOR word 36) XOR word 30) XOR word 28
11000011101101100001110010101000
:Out

10000111011011000011100101010001
:Left Rotated 1

10000111011011000011100101010001
:Word 44

10111001001011101000110000110001
:word 42
01101100111010000100110010110100
:word 37

:word 42 XOR word 37
11010101110001101100000010000101
:Out

11010101110001101100000010000101
:word 42 XOR word 37
00011011001110100001001111001101
:word 31

:(word 42 XOR word 37) XOR word 31
11001110111111001101001101001000
:Out

11001110111111001101001101001000
:(word 42 XOR word 37) XOR word 31
10101101101001000001000110111100
:word 29

:((word 42 XOR word 37) XOR word 31) XOR word 29
01100011010110001100001011110100
:Out

11000110101100011000010111101000
:Left Rotated 1

11000110101100011000010111101000
:Word 45

10110011101000010011110000110001
:word 43

11011011001101111010011000110011
:word 38

:word 43 XOR word 38
01101000100101101001101000000010
:Out

01101000100101101001101000000010
:word 43 XOR word 38
10101101110001100111101010100111
:word 32

:(word 43 XOR word 38) XOR word 32
11000101010100001110000010100101
:Out

11000101010100001110000010100101
:(word 43 XOR word 38) XOR word 32
00011011100100101110100011000011
:word 30

:((word 43 XOR word 38) XOR word 32) XOR word 30
11011110110000100000100001100110
:Out

10111101100001000001000011001101
:Left Rotated 1

10111101100001000001000011001101
:Word 46

10000111011011000011100101010001
:word 44
01010110110100100011000111000110
:word 39

:word 44 XOR word 39
11010001101111100000100010010111
:Out

11010001101111100000100010010111
:word 44 XOR word 39
10111110110111011000100000000010
:word 33

:(word 44 XOR word 39) XOR word 33
01101111011000111000000010010101
:Out

01101111011000111000000010010101
:(word 44 XOR word 39) XOR word 33
00011011001110100001001111001101
:word 31

:((word 44 XOR word 39) XOR word 33) XOR word 31
01110100010110011001001101011000
:Out

11101000101100110010011010110000
:Left Rotated 1

11101000101100110010011010110000
:Word 47

11000110101100011000010111101000
:word 45
01110100111100111110110010000000
:word 40

:word 45 XOR word 40
10110010010000100110100101101000
:Out

10110010010000100110100101101000
:word 45 XOR word 40
10110000101110010011001101110101
:word 34

:(word 45 XOR word 40) XOR word 34
00000010111110110101101000011101
:Out

00000010111110110101101000011101
:(word 45 XOR word 40) XOR word 34
10101101110001100111101010100111
:word 32

:((word 45 XOR word 40) XOR word 34) XOR word 32
10101111001111010010000010111010
:Out

01011110011110100100000101110101
:Left Rotated 1

01011110011110100100000101110101
:Word 48

10111101100001000001000011001101
:word 46
10001100100100110001001111001100
:word 41

:word 46 XOR word 41
00110001000101110000001100000001
:Out

00110001000101110000001100000001
:word 46 XOR word 41
00000000100001110110000010100100
:word 35

:(word 46 XOR word 41) XOR word 35
00110001100100000110001110100101
:Out

00110001100100000110001110100101
:(word 46 XOR word 41) XOR word 35
10111110110111011000100000000010
:word 33

:((word 46 XOR word 41) XOR word 35) XOR word 33
10001111010011011110101110100111
:Out

00011110100110111101011101001111
:Left Rotated 1

00011110100110111101011101001111
:Word 49

11101000101100110010011010110000
:word 47
10111001001011101000110000110001
:word 42

:word 47 XOR word 42
01010001100111011010101010000001
:Out

01010001100111011010101010000001
:word 47 XOR word 42

00111000100110011010101100001010
:word 36

:(word 47 XOR word 42) XOR word 36
01101001000001000000000110001011
:Out

01101001000001000000000110001011
:(word 47 XOR word 42) XOR word 36
10110000101110010011001101110101
:word 34

:((word 47 XOR word 42) XOR word 36) XOR word 34
11011001101111010011001011111110
:Out

10110011011110100110010111111101
:Left Rotated 1

10110011011110100110010111111101
:Word 50

01011110011110100100000101110101
:word 48
10110011101000010011110000110001
:word 43

:word 48 XOR word 43
11101101110110110111110101000100
:Out

11101101110110110111110101000100
:word 48 XOR word 43
01101100111010000100110010110100
:word 37

:(word 48 XOR word 43) XOR word 37
10000001001100110011000111110000
:Out

10000001001100110011000111110000
:(word 48 XOR word 43) XOR word 37
00000000100001110110000010100100
:word 35

:((word 48 XOR word 43) XOR word 37) XOR word 35
10000001101101000101000101010100
:Out

00000011011010001010001010101001
:Left Rotated 1

00000011011010001010001010101001
:Word 51

00011110100110111101011101001111
:word 49
10000111011011000011100101010001
:word 44

:word 49 XOR word 44
10011001111101111110111000011110
:Out

10011001111101111110111000011110
:word 49 XOR word 44
11011011001101111010011000110011
:word 38

:(word 49 XOR word 44) XOR word 38
01000010110000000100100000101101
:Out

01000010110000000100100000101101
:(word 49 XOR word 44) XOR word 38
00111000100110011010101100001010
:word 36

:((word 49 XOR word 44) XOR word 38) XOR word 36
01111010010110011111000110010011 1
:Out

11110100101100111100011001001110
:Left Rotated 1

11110100101100111100011001001110
:Word 52

10110011011110100110010111111101
:word 50
11000110101100011000010111101000
:word 45

:word 50 XOR word 45

01110101110010111110000000010101
:Out

01110101110010111110000000010101
:word 50 XOR word 45
01010110110100100011000111000110
:word 39

:(word 50 XOR word 45) XOR word 39
00100011000110011101000111010011
:Out

00100011000110011101000111010011
:(word 50 XOR word 45) XOR word 39
01101100111010000100110010110100
:word 37

:((word 50 XOR word 45) XOR word 39) XOR word 37
01001111111100011001110101100111
:Out

10011111111000110011101011001110
:Left Rotated 1

10011111111000110011101011001110
:Word 53

00000011011010001010001010101001
:word 51
10111101100001000001000011001101
:word 46

:word 51 XOR word 46
10111110111011001011001001100100
:Out

10111110111011001011001001100100
:word 51 XOR word 46
01110100111100111110110010000000
:word 40

:(word 51 XOR word 46) XOR word 40
11001010000111110101111011100100
:Out

11001010000111110101111011100100
:(word 51 XOR word 46) XOR word 40

11011011001101111010011000110011
:word 38

:((word 51 XOR word 46) XOR word 40) XOR word 38
00010001001010001111100011010111
:Out

00100010010100011111000110101110
:Left Rotated 1

00100010010100011111000110101110
:Word 54

11110100101100111100011001001110
:word 52
11101000101100110010011010110000
:word 47

:word 52 XOR word 47
00011100000000001110000011111110
:Out

00011100000000001110000011111110
:word 52 XOR word 47
10001100100100110001001111001100
:word 41

:(word 52 XOR word 47) XOR word 41
10010000100100111111001100110010
:Out

10010000100100111111001100110010
:(word 52 XOR word 47) XOR word 41
01010110110100100011000111000110
:word 39

:((word 52 XOR word 47) XOR word 41) XOR word 39
11000110010000011100001011110100
:Out

10001100100000111000010111101001
:Left Rotated 1

10001100100000111000010111101001
:Word 55

10011111111000110011101011001110
:word 53
01011110011110100100000101110101
:word 48

:word 53 XOR word 48
11000001100110010111101110111011
:Out

11000001100110010111101110111011
:word 53 XOR word 48
10111001001011101000110000110001
:word 42

:(word 53 XOR word 48) XOR word 42
01111000101101111111011110001010
:Out

01111000101101111111011110001010
:(word 53 XOR word 48) XOR word 42
01110100111100111111010010000000
:word 40

:((word 53 XOR word 48) XOR word 42) XOR word 40
00001100010001000001101100001010
:Out

00011000100010000011011000010100
:Left Rotated 1

00011000100010000011011000010100
:Word 56

00100010010100011111000110101110
:word 54
00011110100110111101011101001111
:word 49

:word 54 XOR word 49
00111100110010100010011011100001
:Out

00111100110010100010011011100001
:word 54 XOR word 49
10110011101000010011110000110001
:word 43

:(word 54 XOR word 49) XOR word 43

10001111011010110001101011010000
:Out

10001111011010110001101011010000
:(word 54 XOR word 49) XOR word 43
10001100100100110001001111001100
:word 41

:((word 54 XOR word 49) XOR word 43) XOR word 41
00000011111110000000100100011100
:Out

00000111111100000001001000111000
:Left Rotated 1

00000111111100000001001000111000
:Word 57

10001100100000111000010111101001
:word 55
10110011011110100110010111111101
:word 50

:word 55 XOR word 50
00111111111110011110000000010100
:Out

00111111111110011110000000010100
:word 55 XOR word 50
10000111011011000011100101010001
:word 44

:(word 55 XOR word 50) XOR word 44
10111000100101011101100101000101
:Out

10111000100101011101100101000101
:(word 55 XOR word 50) XOR word 44
10111001001011101000110000110001
:word 42

:((word 55 XOR word 50) XOR word 44) XOR word 42
00000001101110110101010101110100
:Out

00000011011101101010101011101000
:Left Rotated 1

00000011011101101010101011101000
:Word 58

00011000100010000011011000010100
:word 56
00000011011010001010001010101001
:word 51

:word 56 XOR word 51
00011011111000001001010010111101
:Out

00011011111000001001010010111101
:word 56 XOR word 51
11000110101100011000010111101000
:word 45

:(word 56 XOR word 51) XOR word 45
11011101010100010001000101010101
:Out

11011101010100010001000101010101
:(word 56 XOR word 51) XOR word 45
10110011101000010011110000110001
:word 43

:((word 56 XOR word 51) XOR word 45) XOR word 43
01101110111100000010110101100100
:Out

11011101111000000101101011001000
:Left Rotated 1

11011101111000000101101011001000
:Word 59

00000111111100000001001000111000
:word 57
11110100101100111100011001001110
:word 52

:word 57 XOR word 52
11110011010000111101010001110110
:Out

11110011010000111101010001110110
:word 57 XOR word 52
10111101100001000001000011001101
:word 46

:(word 57 XOR word 52) XOR word 46
01001110110001111100010010111011
:Out

01001110110001111100010010111011
:(word 57 XOR word 52) XOR word 46
10000111011011000011100101010001
:word 44

:((word 57 XOR word 52) XOR word 46) XOR word 44
11001001101010111111110111101010
:Out

10010011010101111111101111010101
:Left Rotated 1

10010011010101111111101111010101
:Word 60

00000011011101101010101011101000
:word 58
10011111111000110011101011001110
:word 53

:word 58 XOR word 53
10011100100101011001000000100110
:Out

10011100100101011001000000100110
:word 58 XOR word 53
11101000101100110010011010110000
:word 47

:(word 58 XOR word 53) XOR word 47
01110100001001101011011010010110
:Out

01110100001001101011011010010110
:(word 58 XOR word 53) XOR word 47
11000110101100011000010111101000
:word 45

:((word 58 XOR word 53) XOR word 47) XOR word 45

10110010100101110011001101111110
:Out

01100101001011100110011011111101
:Left Rotated 1

01100101001011100110011011111101
:Word 61

11011101111000000101101011001000
:word 59
00100010010100011111000110101110
:word 54

:word 59 XOR word 54
11111111101100011010101101100110
:Out

11111111101100011010101101100110
:word 59 XOR word 54
01011110011110100100000101110101
:word 48

:(word 59 XOR word 54) XOR word 48
10100001110010111110101000010011
:Out

10100001110010111110101000010011
:(word 59 XOR word 54) XOR word 48
10111101100001000001000011001101
:word 46

:((word 59 XOR word 54) XOR word 48) XOR word 46
00011100010011111111101011011110
:Out

00111000100111111111010110111100
:Left Rotated 1

00111000100111111111010110111100
:Word 62

10010011010101111111101111010101
:word 60
10001100100000111000010111101001
:word 55

:word 60 XOR word 55
00011111110101000111111000111100
:Out

00011111110101000111111000111100
:word 60 XOR word 55
00011110100110111101011101001111
:word 49

:(word 60 XOR word 55) XOR word 49
00000001010011111010100101110011
:Out

00000001010011111010100101110011
:(word 60 XOR word 55) XOR word 49
11101000101100110010011010110000
:word 47

:((word 60 XOR word 55) XOR word 49) XOR word 47
11101001111111001000111111000011
:Out

11010011111110010001111110000111
:Left Rotated 1

11010011111110010001111110000111
:Word 63

01100101001011100110011011111101
:word 61
00011000100010000011011000010100
:word 56

:word 61 XOR word 56
01111101101001100101000011101001
:Out

01111101101001100101000011101001
:word 61 XOR word 56
10110011011110100110010111111101
:word 50

:(word 61 XOR word 56) XOR word 50
11001110110111000011010100010100
:Out

11001110110111000011010100010100
:(word 61 XOR word 56) XOR word 50
01011110011110100100000101110101
:word 48

:((word 61 XOR word 56) XOR word 50) XOR word 48
10010000101001100111010001100001
:Out

00100001010011001110100011000011
:Left Rotated 1

00100001010011001110100011000011
:Word 64

00111000100111111111010110111100
:word 62
00000111111100000001001000111000
:word 57

:word 62 XOR word 57
00111111011011111110011110000100
:Out

00111111011011111110011110000100
:word 62 XOR word 57
00000011011010001010001010101001
:word 51

:(word 62 XOR word 57) XOR word 51
00111100000001110100010100101101
:Out

00111100000001110100010100101101
:(word 62 XOR word 57) XOR word 51
00011110100110111101011101001111
:word 49

:((word 62 XOR word 57) XOR word 51) XOR word 49
00100010100111001001001001100010
:Out

01000101001110010010010011000100
:Left Rotated 1

01000101001110010010010011000100
:Word 65

11010011111110010001111110000111
:word 63
00000011011101101010101011101000
:word 58

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11010000100011111011010101101111
:Out

11010000100011111011010101101111
:word 63 XOR word 58
11110100101100111100011001001110
:word 52

:(word 63 XOR word 58) XOR word 52
00100100001111000111001100100001
:Out

00100100001111000111001100100001
:(word 63 XOR word 58) XOR word 52
10110011011110100110010111111101
:word 50

:((word 63 XOR word 58) XOR word 52) XOR word 50
10010111010001100001011011011100
:Out

00101110100011000010110110111001
:Left Rotated 1

00101110100011000010110110111001
:Word 66

00100001010011001110100011000011
:word 64
11011101111000000101101011001000
:word 59

:word 64 XOR word 59
11111100101011001011001000001011
:Out

11111100101011001011001000001011
:word 64 XOR word 59
10011111111000110011101011001110
:word 53

:(word 64 XOR word 59) XOR word 53
01100011010011111000100011000101
:Out

01100011010011111000100011000101
:(word 64 XOR word 59) XOR word 53
00000011011010001010001010101001
:word 51

:((word 64 XOR word 59) XOR word 53) XOR word 51
01100000001001110010101001101100
:Out

11000000010011100101010011011000
:Left Rotated 1

11000000010011100101010011011000
:Word 67

01000101001110010010010011000100
:word 65
10010011010101111111101111010101
:word 60

:word 65 XOR word 60
11010110011011101101111100010001
:Out

11010110011011101101111100010001
:word 65 XOR word 60
00100010010100011111000110101110
:word 54

:(word 65 XOR word 60) XOR word 54
11110100001111110010111010111111
:Out

11110100001111110010111010111111
:(word 65 XOR word 60) XOR word 54
11110100101100111100011001001110
:word 52

:((word 65 XOR word 60) XOR word 54) XOR word 52
00000000100011001110100011110001
:Out

00000001000110011101000111100010
:Left Rotated 1

00000001000110011101000111100010
:Word 68

00101110100011000010110110111001
:word 66
01100101001011100110011011111101
:word 61

:word 66 XOR word 61
01001011101000100100101101000100
:Out

01001011101000100100101101000100
:word 66 XOR word 61
10001100100000111000010111101001
:word 55

:(word 66 XOR word 61) XOR word 55
11000111001000011100111010101101
:Out

11000111001000011100111010101101
:(word 66 XOR word 61) XOR word 55
10011111111000110011101011001110
:word 53

:((word 66 XOR word 61) XOR word 55) XOR word 53
01011000110000101111010001100011
:Out

10110001100001011110100011000110
:Left Rotated 1

10110001100001011110100011000110
:Word 69

11000000010011100101010011011000
:word 67
00111000100111111111010110111100
:word 62

:word 67 XOR word 62
11111000110100011010000101100100
:Out

11111000110100011010000101100100
:word 67 XOR word 62
00011000100010000011011000010100
:word 56

:(word 67 XOR word 62) XOR word 56
11100000010110011001011101110000
:Out

11100000010110011001011101110000
:(word 67 XOR word 62) XOR word 56
00100010010100011111000110101110
:word 54

:((word 67 XOR word 62) XOR word 56) XOR word 54
11000010000010000110011011011110
:Out

10000100000100001100110110111101
:Left Rotated 1

10000100000100001100110110111101
:Word 70

00000001000110011101000111100010
:word 68
11010011111110010001111110000111
:word 63

:word 68 XOR word 63
11010010111000001100111001100101
:Out

11010010111000001100111001100101
:word 68 XOR word 63
00000111111100000001001000111000
:word 57

:(word 68 XOR word 63) XOR word 57
11010101000100001101110001011101
:Out

11010101000100001101110001011101
:(word 68 XOR word 63) XOR word 57
10001100100000111000010111101001
:word 55

:((word 68 XOR word 63) XOR word 57) XOR word 55
01011001100100110101100110110100
:Out

10110011001001101011001101101000
:Left Rotated 1

10110011001001101011001101101000
:Word 71

10110001100001011110100011000110
:word 69
00100001010011001110100011000011
:word 64

:word 69 XOR word 64
10010000110010010000000000000101
:Out

10010000110010010000000000000101
:word 69 XOR word 64
00000011011101101010101011101000
:word 58

:(word 69 XOR word 64) XOR word 58
10010011101111111010101011101101
:Out

10010011101111111010101011101101
:(word 69 XOR word 64) XOR word 58
00011000100010000011011000010100
:word 56

:((word 69 XOR word 64) XOR word 58) XOR word 56
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:Out

00010110011011110011100111110011
:Left Rotated 1

00010110011011110011100111110011
:Word 72

10000100000100001100110110111101
:word 70

01000101001110010010010011000100
:word 65

:word 70 XOR word 65
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:Out

11000001001010011111010010111 1001
:word 70 XOR word 65
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:word 59

:(word 70 XOR word 65) XOR word 59
00011100110010011011001110110001
:Out

00011100110010011011001110110001
:(word 70 XOR word 65) XOR word 59
00000111111100000001001000111000
:word 57

:((word 70 XOR word 65) XOR word 59) XOR word 57
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:Out

00110110011100110100001100010010
:Left Rotated 1

00110110011100110100001100010010
:Word 73

10110011001001101011001101101000
:word 71
00101110100011000010110110111001
:word 66

:word 71 XOR word 66
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:Out

10011101101010101001111011010001
:word 71 XOR word 66
10010011010101111111101111010101
:word 60

:(word 71 XOR word 66) XOR word 60
00001110111111010110010100000100
:Out

00001110111111010110010100000100
:(word 71 XOR word 66) XOR word 60
00000011011101101010101011101000
:word 58

:((word 71 XOR word 66) XOR word 60) XOR word 58
00001101100010111100111111101100
:Out

00011011000101111001111111011000
:Left Rotated 1

00011011000101111001111111011000
:Word 74

00010110011011110011100111110011
:word 72
11000000010011100101010011011000
:word 67

:word 72 XOR word 67
11010110001000010110110100101011
:Out

11010110001000010110110100101011
:word 72 XOR word 67
01100101001011100110011011111101
:word 61

:(word 72 XOR word 67) XOR word 61
10110011000011110000101111010110
:Out

10110011000011110000101111010110
:(word 72 XOR word 67) XOR word 61
11011101111000000101101011001000
:word 59

:((word 72 XOR word 67) XOR word 61) XOR word 59
01101110111011110101000100011110
:Out

11011101110111101010001000111100
:Left Rotated 1

11011101110111101010001000111100
:Word 75

00110110011100110100001100010010
:word 73
00000001000110011101000111100010
:word 68

:word 73 XOR word 68
00110111011010101001001011110000
:Out

00110111011010101001001011110000
:word 73 XOR word 68
00111000100111111111010110111100
:word 62

:(word 73 XOR word 68) XOR word 62
00001111111101010110011101001100
:Out

00001111111101010110011101001100
:(word 73 XOR word 68) XOR word 62
10010011010101111111101111010101
:word 60

:((word 73 XOR word 68) XOR word 62) XOR word 60
10011100101000101001110010011001
:Out

00111001010001010011100100110011
:Left Rotated 1

00111001010001010011100100110011
:Word 76

00011011000101111001111111011000
:word 74
10110001100001011110100011000110
:word 69

:word 74 XOR word 69
10101010100100100111011100011110
:Out

10101010100100100111011100011110
:word 74 XOR word 69

11010011111110010001111110000111
:word 63

:(word 74 XOR word 69) XOR word 63
01111001011010110110100010011001
:Out

01111001011010110110100010011001
:(word 74 XOR word 69) XOR word 63
01100101001011100110011011111101
:word 61

:((word 74 XOR word 69) XOR word 63) XOR word 61
00011100010001010000111001100100
:Out

00111000100010100001110011001000
:Left Rotated 1

00111000100010100001110011001000
:Word 77

11011101110111101010001000111100
:word 75
10000100000100001100110110111101
:word 70

:word 75 XOR word 70
01011001110011100110111110000001
:Out

01011001110011100110111110000001
:word 75 XOR word 70
00100001010011001110100011000011
:word 64

:(word 75 XOR word 70) XOR word 64
01111000100000101000011101000010
:Out

01111000100000101000011101000010
:(word 75 XOR word 70) XOR word 64
00111000100111111111010110111100
:word 62

:((word 75 XOR word 70) XOR word 64) XOR word 62
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:Out

10000000001110101110010111111100
:Left Rotated 1

10000000001110101110010111111100
:Word 78

00111001010001010011100100110011
:word 76
10110011001001101011001101101000
:word 71

:word 76 XOR word 71
10001010011000111000101001011011
:Out

10001010011000111000101001011011
:word 76 XOR word 71
01000101001110010010010011000100
:word 65

:(word 76 XOR word 71) XOR word 65
11001111010110101010111010011111
:Out

11001111010110101010111010011111
:(word 76 XOR word 71) XOR word 65
11010011111110010001111110000111
:word 63

:((word 76 XOR word 71) XOR word 65) XOR word 63
00011100101000111011000100011000
:Out

00111001010001110110001000110000
:Left Rotated 1

00111001010001110110001000110000
:Word 79

- 0: 01101011011000010111001001100101
- 1: 01100101011011010010000010000000
- 2: 00000000000000000000000000000000
- 3: 00000000000000000000000000000000
- 4: 00000000000000000000000000000000
- 5: 00000000000000000000000000000000

- 6: 00000000000000000000000000000000
- 7: 00000000000000000000000000000000
- 8: 00000000000000000000000000000000
- 9: 00000000000000000000000000000000
- 10: 00000000000000000000000000000000
- 11: 00000000000000000000000000000000
- 12: 00000000000000000000000000000000
- 13: 00000000000000000000000000000000
- 14: 00000000000000000000000000000000
- 15: 00000000000000000000000000111000
- 16: 11010110110000101110010011001010
- 17: 11001010110110100100000100000000
- 18: 00000000000000000000000001110000
- 19: 10101101100001011100100110010101
- 20: 10010101101101001000001000000001
- 21: 00000000000000000000000011100000
- 22: 01011011000010111001001100101011
- 23: 00101011011010010000010001110011
- 24: 10101101100001011100100001010101
- 25: 00100011101000111010010001010111
- 26: 01010110110100100000100000000110
- 27: 00000000000000000000001110000000
- 28: 01101100001011100100110010101101
- 29: 10101101101001000001000110111100
- 30: 00011011100100101110100011000011
- 31: 00011011001110100001001111001101
- 32: 10101101110001100111101010100111
- 33: 10111110110111011000100000000010
- 34: 10110000101110010011001101110101
- 35: 00000000100001110110000010100100
- 36: 00111000100110011010101100001010
- 37: 01101100111010000100110010110100
- 38: 11011011001101111010011000110011
- 39: 01010110110100100011000111000110
- 40: 01110100111100111110110010000000
- 41: 10001100100100110001001111001100
- 42: 10111001001011101000110000110001
- 43: 10110011101000010011110000110001
- 44: 10000111011011000011100101010001
- 45: 11000110101100011000010111101000
- 46: 10111101100001000001000011001101
- 47: 11101000101100110010011010110000
- 48: 01011110011110100100000101110101
- 49: 00011110100110111101011101001111
- 50: 10110011011110100110010111111101
- 51: 00000011011010001010001010101001
- 52: 11110100101100111100011001001110
- 53: 10011111111000110011101011001110
- 54: 00100010010100011111000110101110
- 55: 10001100100000111000010111101001
- 56: 00011000100010000011011000010100
- 57: 00000111111100000001001000111000
- 58: 00000011011101101010101011101000
- 59: 11011101111000000101101011001000

- 60: 10010011010101111111101111010101
- 61: 01100101001011100110011011111101
- 62: 00111000100111111111010110111100
- 63: 11010011111110010001111110000111
- 64: 00100001010011001110100011000011
- 65: 01000101001110010010010011000100
- 66: 00101110100011000010110110111001
- 67: 11000000010011100101010011011000
- 68: 00000001000110011101000111100010
- 69: 10110001100001011110100011000110
- 70: 10000100000100001100110110111101
- 71: 10110011001001101011001101101000
- 72: 00010110011011110011100111110011
- 73: 00110110011100110100001100010010
- 74: 00011011000101111001111111011000
- 75: 11011101110111101010001000111100
- 76: 00111001010001010011100100110011
- 77: 00111000100010100001110011001000
- 78: 10000000001110101110010111111100
- 79: 00111001010001110110001000110000

Set A = h0
01100111010001010010001100000001
Set B = h1
11101111110011011010101110001001
Set C = h2
10011000101110101101110011111110
Set D = h3
00010000001100100101010001110110
Set E = h4
11000011110100101110000111110000

Word 0

00010000001100100101010001110110
:!B
00010000001100100101010001110110
:D

!B AND D
00010000001100100101010001110110
:Out

11101111110011011010101110001001
:B
10011000101110101101110011111110
:C

B AND C
10001000100010001000100010001000

:Out

00010000001100100101010001110110
:!B AND D
10001000100010001000100010001000
:B AND C

(!B AND D) OR (B AND C)
10011000101110101101110011111110
:F

01011010100000100111100110011001
:K
11101000101001000110000000101100
:A lrot 5
10011000101110101101110011111110
:F

:(A lrot 5) + F
11000000101011111001111010010101 0
:Out

11000000101011111001111010010101 0
:(A lrot 5) + F
11000011111010010111000011111 0000
:E

:(A lrot 5) + F + E
10010001010011001000011111000110 10
:Out

10010001010011001000011111000110 10
:(A lrot 5) + F + E
01011010100000100111100110011001
:K

:(A lrot 5) + F + E + K
11010011111110110100100110001011 0011
:Out

11010011111110110100100110001011 0011
:(A lrot 5) + F + E + K
01101011011000010111001001100101
:Word 0

:(A lrot 5) + F + E + K + Word 0
11110000101100010110000010110001 1000
:temp

00001011000101100000101100011000
:truncated temp
00010000001100100101010001110110
:E = D
10011000101110101101110011111110
:D = C
01111011111100110110101011100010
:C = B Left Rotate 30
01100111010001010010001100000001
:B = A
00001011000101100000101100011000
:A = Temp

Word 1

10011000101110101101110011111110
:!B
10011000101110101101110011111110
:D

!B AND D
10011000101110101101110011111110
:Out

01100111010001010010001100000001
:B
01111011111100110110101011100010
:C

B AND C
01100011010000010010001000000000
:Out

10011000101110101101110011111110
:!B AND D
01100011010000010010001000000000
:B AND C

(!B AND D) OR (B AND C)
11111011111110111111111011111110
:F

01011010100000100111100110011001
:K
01100010110000010110001100000001
:A lrot 5
11111011111110111111111011111110
:F

:(A lrot 5) + F
10101111010111101011000011111111
:Out

10101111010111101011000011111111
:(A lrot 5) + F
00010000001100100101010001110110
:E

:(A lrot 5) + F + E
11011011101110111111011011001110101
:Out

11011011101110111111011011001110101
:(A lrot 5) + F + E
01011010100000100111100110011001
:K

:(A lrot 5) + F + E + K
11111001001011100100011000000001110
:Out

11111001001011100100011000000001110
:(A lrot 5) + F + E + K
01100101011011010010000010000000
:Word 1

:(A lrot 5) + F + E + K + Word 1
10000010111011011111010100001000111 0
:temp

00101110110111110101000010001110
:truncated temp
10011000101110101101110011111110
:E = D
01111011111100110110101011100010
:D = C
01011001110100010100100011000000
:C = B Left Rotate 30
00001011000101100000101100011000
:B = A
00101110110111110101000010001110
:A = Temp

Word 2

11110100111010011111010011100111
:!B

01111011111100110110101011100010
:D

!B AND D
01110000111000010110000011100010
:Out

00001011000101100000101100011000
:B
01011001110100010100100011000000
:C

B AND C
00001001000100000000100000000000
:Out

01110000111000010110000011100010
:!B AND D
00001001000100000000100000000000
:B AND C

(!B AND D) OR (B AND C)
01111001111100010110100011100010
:F

01011010100000100111100110011001
:K
11011011111010100001000111000101
:A lrot 5
01111001111100010110100011100010
:F

:(A lrot 5) + F
10101010111011011011111010100111
:Out

10101010111011011011111010100111
:(A lrot 5) + F
10011000101110101101110011111110
:E

:(A lrot 5) + F + E
11111011101001011001010111110100101
:Out

11111011101001011001010111110100101
:(A lrot 5) + F + E
01011010100000100111100110011001
:K

:(A lrot 5) + F + E + K
10001001001000110001101000100111110
:Out

10001001001000110001101000100111110
:(A lrot 5) + F + E + K
00000000000000000000000000000000
:Word 2

:(A lrot 5) + F + E + K + Word 2
11000100100100011000110100010011110
:temp

01001001000110001101000100111110
:truncated temp
01111011111100110110101011100010
:E = D
01011001110100010100100011000000
:D = C
00000010110001011000001011000110
:C = B Left Rotate 30
00101110110111110101000010001110
:B = A
01001001000110001101000100111110
:A = Temp

Word 3

11010001001000001010111101110001
:!B
01011001110100010100100011000000
:D

!B AND D
01010001000000000000100001000000
:Out

00101110110111110101000010001110
:B
00000010110001011000001011000110
:C

B AND C
00000010110001010000000010000110
:Out

01010001000000000000100001000000
:!B AND D

00000010110001010000000010000110
:B AND C

(!B AND D) OR (B AND C)
01010011110001010000100011000110
:F

01011010100000100111100110011001
:K
00100011000110100010011111001001
:A lrot 5
01010011110001010000100011000110
:F

:(A lrot 5) + F
10111011011011111001100001000111 1
:Out

10111011011011111001100001000111 1
:(A lrot 5) + F
01111011111100110110101011100010
:E

:(A lrot 5) + F + E
11111100101101001010011011011100 01
:Out

11111100101101001010011011011100 01
:(A lrot 5) + F + E
01011010100000100111100110011001
:K

:(A lrot 5) + F + E + K
10001001101010101010001010100001010
:Out

10001001101010101010001010100001010
:(A lrot 5) + F + E + K
00000000000000000000000000000000
:Word 3

:(A lrot 5) + F + E + K + Word 3
11000100110101010101000101010000 1010
:temp

01001101010101010001010100001010
:truncated temp
01011001110100010100100011000000
:E = D

00000010110001011000001011000110
:D = C
10001011101101111101010000100011
:C = B Left Rotate 30
01001001000110001101000100111110
:B = A
01001101010101010001010100001010
:A = Temp

Word 4

10110110111001110010111011000001
:!B
00000010110001011000001011000110
:D

!B AND D
00000010110001010000001011000000
:Out

01001001000110001101000100111110
:B
10001011101101111101010000100011
:C

B AND C
00001001000100001101000000100010
:Out

00000010110001010000001011000000
:!B AND D
00001001000100001101000000100010
:B AND C

(!B AND D) OR (B AND C)
00001011110101011101001011100010
:F

01011010100000100111100110011001
:K
10101010101000101010000101001001
:A lrot 5
00001011110101011101001011100010
:F

:(A lrot 5) + F
11011011001111000011101000010101 1
:Out

11011011001111000011101000010101 1
:(A lrot 5) + F
01011001110100010100100011000000
:E

:(A lrot 5) + F + E
10000100000100100110111100111010 11
:Out

10000100000100100110111100111010 11
:(A lrot 5) + F + E
01011010100000100111100110011001
:K

:(A lrot 5) + F + E + K
11001101010110011000011011010000100
:Out

11001101010110011000011011010000100
:(A lrot 5) + F + E + K
00000000000000000000000000000000
:Word 4

:(A lrot 5) + F + E + K + Word 4
11100110101011001100001101101000010 0
:temp

01101010110011000011011010000100
:truncated temp
00000010110001011000001011000110
:E = D
10001011101101111101010000100011
:D = C
10010010010001100011010001001111
:C = B Left Rotate 30
01001101010101010001010100001010
:B = A
01101010110011000011011010000100
:A = Temp

Word 5

10110010101010101110101011110101
:!B
10001011101101111101010000100011
:D

!B AND D
10000010101000101100000000100001
:Out

01001101010101010001010100001010
:B
10010010010001100011010001001111
:C

B AND C
00000000010001000001010000001010
:Out

10000010101000101100000000100001
:!B AND D
00000000010001000001010000001010
:B AND C

(!B AND D) OR (B AND C)
10000010111001101101010000101011
:F

01011010100000100111100110011001
:K
01011001100001101101000010001101
:A lrot 5
10000010111001101101010000101011
:F

:(A lrot 5) + F
11101110001101101101001001011000
:Out

11101110001101101101001001011000
:(A lrot 5) + F
00000010110001011000001011000110
:E

:(A lrot 5) + F + E
11110111110011001100100111011111110
:Out

11110111110011001100100111011111110
:(A lrot 5) + F + E
01011010100000100111100110011001
:K

:(A lrot 5) + F + E + K
10000111001101101011010000100010111
:Out

10000111001101101011010000100010111
:(A lrot 5) + F + E + K
00000000000000000000000000000000
:Word 5

:(A lrot 5) + F + E + K + Word 5
11000011100110110101101000010001011 1
:temp

00111001101101011010000100010111
:truncated temp
10001011101101111101010000100011
:E = D
10010010010001100011010001001111
:D = C
10010011010101010100010101000010
:C = B Left Rotate 30
01101010110011000011011010000100
:B = A
00111001101101011010000100010111
:A = Temp

Word 6

10010101001100111100100101111011
:!B
10010010010001100011010001001111
:D

!B AND D
10010000000000100000000001001011
:Out

01101010110011000011011010000100
:B
10010011010101010100010101000010
:C

B AND C
00000010010001000000010000000000
:Out

10010000000000100000000001001011
:!B AND D
00000010010001000000010000000000
:B AND C

(!B AND D) OR (B AND C)
10010010010001100000010001001011
:F

01011010100000100111100110011001
:K
00110110101101000010001011100111
:A lrot 5
10010010010001100000010001001011
:F

:(A lrot 5) + F
11100100011111010001001110011001 0
:Out

11100100011111010001001110011001 0
:(A lrot 5) + F
10001011101101111101010000100011
:E

:(A lrot 5) + F + E
10010101001011000111111101101010 1
:Out

10010101001011000111111101101010 1
:(A lrot 5) + F + E
01011010100000100111100110011001
:K

:(A lrot 5) + F + E + K
11010101111001101000111010011101110
:Out

11010101111001101000111010011101110
:(A lrot 5) + F + E + K
00000000000000000000000000000000
:Word 6

:(A lrot 5) + F + E + K + Word 6
11101010111100110100011101001110 1
:temp

10101111001101000111010011101110
:truncated temp
10010010010001100011010001001111
:E = D
10010011010101010100010101000010
:D = C
00011010101100110000110110100001
:C = B Left Rotate 30
00111001101101011010000100010111
:B = A

10101111001101000111010011101110
:A = Temp

Word 7

11000110010010100101111011101000
:!B
10010011010101010100010101000010
:D

!B AND D
10000010010000000100010001000000
:Out

00111001101101011010000100010111
:B
00011010101100110000110110100001
:C

B AND C
00011000101100010000000100000001
:Out

10000010010000000100010001000000
:!B AND D
00011000101100010000000100000001
:B AND C

(!B AND D) OR (B AND C)
10011010111100010100010101000001
:F

01011010100000100111100110011001
:K
11100110100011101001110111010101
:A lrot 5
10011010111100010100010101000001
:F

:(A lrot 5) + F
11000000101111111111000110001011 0
:Out

11000000101111111111000110001011 0
:(A lrot 5) + F
10010010010001100011010001001111
:E

:(A lrot 5) + F + E

10000100111100011000010111011001 01
:Out

10000100111100011000010111011001 01
:(A lrot 5) + F + E
01011010100000100111100110011001
:K

:(A lrot 5) + F + E + K
11001101110010010001001000011111110
:Out

11001101110010010001001000011111110
:(A lrot 5) + F + E + K
00000000000000000000000000000000
:Word 7

:(A lrot 5) + F + E + K + Word 7
11100110111001001000100100001111111 0
:temp

01101110010010001001000011111110
:truncated temp
10010011010101010100010101000010
:E = D
00011010101100110000110110100001
:D = C
11001110011011010110100001000101
:C = B Left Rotate 30
10101111001101000111010011101110
:B = A
01101110010010001001000011111110
:A = Temp

Word 8

01010000110010111000101100010001
:!B
00011010101100110000110110100001
:D

!B AND D
00010000100000110000100100000001
:Out

10101111001101000111010011101110
:B
11001110011011010110100001000101
:C

B AND C
10001110001001000110000001000100
:Out

00010000100000110000100100000001
:!B AND D
10001110001001000110000001000100
:B AND C

(!B AND D) OR (B AND C)
10011110101001110110100101000101
:F

01011010100000100111100110011001
:K
11001001000100100001111111001101
:A lrot 5
10011110101001110110100101000101
:F

:(A lrot 5) + F
10110011110111001100010010010010
:Out

10110011110111001100010010010010
:(A lrot 5) + F
10010011010101010100010101000010
:E

:(A lrot 5) + F + E
11111110110000111011001110010101 00
:Out

11111110110000111011001110010101 00
:(A lrot 5) + F + E
01011010100000100111100110011001
:K

:(A lrot 5) + F + E + K
10001010101100100010100011111101101
:Out

10001010101100100010100011111101101
:(A lrot 5) + F + E + K
00000000000000000000000000000000
:Word 8

:(A lrot 5) + F + E + K + Word 8

11000101010110010001010001111110110 1
:temp

01010101100100010100011111101101
:truncated temp
00011010101100110000110110100001
:E = D
11001110011011010110100001000101
:D = C
10101011110011010001110100111011
:C = B Left Rotate 30
01101110010010001001000011111110
:B = A
01010101100100010100011111101101
:A = Temp

Word 9

10010001101101110110111100000001
:!B
11001110011011010110100001000101
:D

!B AND D
10000000001001010110100000000001
:Out

01101110010010001001000011111110
:B
10101011110011010001110100111011
:C

B AND C
00101010010010000001000000111010
:Out

10000000001001010110100000000001
:!B AND D
00101010010010000001000000111010
:B AND C

(!B AND D) OR (B AND C)
10101010011011010111100000111011
:F

01011010100000100111100110011001
:K
10110010001010001111110110101010
:A lrot 5

10101010011011010111100000111011
:F

:(A lrot 5) + F
10101110010010110011101011110 0101
:Out

10101110010010110011101011110 0101
:(A lrot 5) + F
00011010101100110000110110100001
:E

:(A lrot 5) + F + E
11011101110100100110000011100001 10
:Out

11011101110100100110000011100001 10
:(A lrot 5) + F + E
01011010100000100111100110011001
:K

:(A lrot 5) + F + E + K
11111010001110010111111110100011111
:Out

11111010001110010111111110100011111
:(A lrot 5) + F + E + K
00000000000000000000000000000000
:Word 9

:(A lrot 5) + F + E + K + Word 9
11111101000111001011111111 0100011111
:temp

11010001110010111111110100011111
:truncated temp
11001110011011010110100001000101
:E = D
10101011110011010001110100111011
:D = C
10011011100100100010010000111111
:C = B Left Rotate 30
01010101100100010100011111101101
:B = A
11010001110010111111110100011111
:A = Temp

Word 10

10101010011011101011100000010010
:!B
10101011110011010001110100111011
:D

!B AND D
10101010010011000001100000010010
:Out

01010101100100010100011111101101
:B
10011011100100100010010000111111
:C

B AND C
00010001100100000000010000101101
:Out

10101010010011000001100000010010
:!B AND D
00010001100100000000010000101101
:B AND C

(!B AND D) OR (B AND C)
10111011110111000001110000111111
:F

01011010100000100111100110011001
:K
00111001011111111010001111111010
:A lrot 5
10111011110111000001110000111111
:F

:(A lrot 5) + F
11111010101011011110000000111001
:Out

11111010101011011110000000111001
:(A lrot 5) + F
11001110011011010110100001000101
:E

:(A lrot 5) + F + E
10110000111100100100101000011111110
:Out

10110000111100100100101000011111110
:(A lrot 5) + F + E

01011010100000100111100110011001
:K

:(A lrot 5) + F + E + K
11100011110010010111010001000010111
:Out

11100011110010010111010001000010111
:(A lrot 5) + F + E + K
00000000000000000000000000000000
:Word 10

:(A lrot 5) + F + E + K + Word 10
11110001111001001011101000100010111
:temp

00011110010010111010001000010111
:truncated temp
10101011110011010001110100111011
:E = D
10011011100100100010010000111111
:D = C
01010101011001000101000111111011
:C = B Left Rotate 30
11010001110010111111110100011111
:B = A
00011110010010111010001000010111
:A = Temp

Word 11

00101110001101000000001011100000
:!B
10011011100100100010010000111111
:D

!B AND D
00001010000100000000000000100000
:Out

11010001110010111111110100011111
:B
01010101011001000101000111111011
:C

B AND C
01010001010000000101000100011011
:Out

00001010000100000000000000100000
:!B AND D
01010001010000000101000100011011
:B AND C

(!B AND D) OR (B AND C)
01011011010100000101000100111011
:F

01011010100000100111100110011001
:K
11001001011101000100001011100011
:A lrot 5
01011011010100000101000100111011
:F

:(A lrot 5) + F
10010010011000100100101000011110
:Out

10010010011000100100101000011110
:(A lrot 5) + F
10101011110011010001110100111011
:E

:(A lrot 5) + F + E
11110100001001000110110001010110 01
:Out

11110100001001000110110001010110 01
:(A lrot 5) + F + E
01011010100000100111100110011001
:K

:(A lrot 5) + F + E + K
10000101011000101000010101011110010
:Out

10000101011000101000010101011110010
:(A lrot 5) + F + E + K
00000000000000000000000000000000
:Word 11

:(A lrot 5) + F + E + K + Word 11
11000010101100010100001010101111 0010
:temp

00101011000101000010101011110010
:truncated temp

10011011100100100010010000111111
:E = D
01010101011001000101000111111011
:D = C
11110100011100101111111101000111
:C = B Left Rotate 30
00011110010010111010001000010111
:B = A
00101011000101000010101011110010
:A = Temp

Word 12

11100001101101000101110111101000
:!B
01010101011001000101000111111011
:D

!B AND D
01000001001001000101000111101000
:Out

00011110010010111010001000010111
:B
11110100011100101111111101000111
:C

B AND C
00010100010000101010001000000111
:Out

01000001001001000101000111101000
:!B AND D
00010100010000101010001000000111
:B AND C

(!B AND D) OR (B AND C)
01010101011001101111001111101111
:F

01011010100000100111100110011001
:K
01100010100001010101111001000101
:A lrot 5
01010101011001101111001111101111
:F

:(A lrot 5) + F
11011011111101100010100100011010 0
:Out

11011011111101100010100100011010
:(A lrot 5) + F
10011011100100100010010000111111
:E

:(A lrot 5) + F + E
10010100110111111001110110011100 11
:Out

10010100110111111001110110011100 11
:(A lrot 5) + F + E
01011010100000100111100110011001
:K

:(A lrot 5) + F + E + K
11010101110000000001111000000001100
:Out

11010101110000000001111000000001100
:(A lrot 5) + F + E + K
00000000000000000000000000000000
:Word 12

:(A lrot 5) + F + E + K + Word 12
11101010111000000000111100000001100
:temp

10101110000000001111000000001100
:truncated temp
01010101011001000101000111111011
:E = D
11110100011100101111111101000111
:D = C
11000111100100101110100010000101
:C = B Left Rotate 30
00101011000101000010101011110010
:B = A
10101110000000001111000000001100
:A = Temp

Word 13

11010100111010111101010100001101
:!B
11110100011100101111111101000111
:D

!B AND D

11010100011000101101010100000101
:Out

00101011000101000010101011110010
:B
11000111100100101110100010000101
:C

B AND C
00000011000100000010100010000000
:Out

11010100011000101101010100000101
:!B AND D
00000011000100000010100010000000
:B AND C

(!B AND D) OR (B AND C)
11010111011100101111110110000101
:F

01011010100000100111100110011001
:K
11000000000111100000000110010101
:A lrot 5
11010111011100101111110110000101
:F

:(A lrot 5) + F
11001011110010000111111110011010
:Out

11001011110010000111111110011010
:(A lrot 5) + F
01010101011001000101000111111011
:E

:(A lrot 5) + F + E
11111011001111010101010000100010101
:Out

11111011001111010101010000100010101
:(A lrot 5) + F + E
01011010100000100111100110011001
:K

:(A lrot 5) + F + E + K
10001000111011101111100101010101110
:Out

10001000111011101111100101010101110
:(A lrot 5) + F + E + K
00000000000000000000000000000000
:Word 13

:(A lrot 5) + F + E + K + Word 13
11000100011101110111110010101010101110
:temp

01000111011101111100101010101110
:truncated temp
11110100011100101111111101000111
:E = D
11000111100100101110100010000101
:D = C
10001010110001010000101010111100
:C = B Left Rotate 30
10101110000000000111100000000001100
:B = A
01000111011101111100101010101110
:A = Temp

Word 14

01010001111111110000111111110011
:!B
11000111100100101110100010000101
:D

!B AND D
01000001100100100000100010000001
:Out

10101110000000000111100000000001100
:B
10001010110001010000101010111100
:C

B AND C
10001010000000000000000000001100
:Out

01000001100100100000100010000001
:!B AND D
10001010000000000000000000001100
:B AND C

(!B AND D) OR (B AND C)

11001011100100100000100010001101
:F

01011010100000100111100110011001
:K
11101110111110010101010111001000
:A lrot 5
11001011100100100000100010001101
:F

:(A lrot 5) + F
11011101010001011010111001010101
:Out

11011101010001011010111001010101
:(A lrot 5) + F
11110100011100101111111101000111
:E

:(A lrot 5) + F + E
10101011101111111001011101100111 00
:Out

10101011101111111001011101100111 00
:(A lrot 5) + F + E
01011010100000100111100110011001
:K

:(A lrot 5) + F + E + K
11100001001100000001101011100110101
:Out

11100001001100000001101011100110101
:(A lrot 5) + F + E + K
00000000000000000000000000000000
:Word 14

:(A lrot 5) + F + E + K + Word 14
11110000100110000000110101110011010 1
:temp

00001001100000001101011100110101
:truncated temp
11000111100100101110100010000101
:E = D
10001010110001010000101010111100
:D = C
00101011100000000011110000000011
:C = B Left Rotate 30

01000111011101111100101010101110
:B = A
00001001100000001101011100110101
:A = Temp

Word 15

10111000100010000011010101010001
:!B
10001010110001010000101010111100
:D

!B AND D
10001000100000000000000000010000
:Out

01000111011101111100101010101110
:B
00101011100000000011110000000011
:C

B AND C
00000011000000000000100000000010
:Out

10001000100000000000000000010000
:!B AND D
00000011000000000000100000000010
:B AND C

(!B AND D) OR (B AND C)
10001011100000000000100000010010
:F

01011010100000100111100110011001
:K
00110000000110101110011010100001
:A lrot 5
10001011100000000000100000010010
:F

:(A lrot 5) + F
11011101110011010111011101010011
:Out

11011101110011010111011101010011
:(A lrot 5) + F
11000111100100101110100010000101
:E

:(A lrot 5) + F + E
10100000110010110111010111001110000
:Out

10100000110010110111010111001110000
:(A lrot 5) + F + E
01011010100000100111100110011001
:K

:(A lrot 5) + F + E + K
11011011101101100000101000011010001
:Out

11011011101101100000101000011010001
:(A lrot 5) + F + E + K
00000000000000000000000000111000
:Word 15

:(A lrot 5) + F + E + K + Word 15
11101101110110110000010100010000 1001
:temp

11011011011000001010001000010 01
:truncated temp
10001010110001010000101010111100
:E = D
00101011100000000011110000000011
:D = C
10010001110111011111001010101011
:C = B Left Rotate 30
00001001100000001101011100110101
:B = A
11011011011000001010001000010 01
:A = Temp

Word 16

11110110011111110010100011001010
:!B
00101011100000000011110000000011
:D

!B AND D
00100010000000000010100000000010
:Out

00001001100000001101011100110101
:B

10010001110111011111001010101011
:C

B AND C
00000001100000001101001000100001
:Out

00100010000000000010100000000010
:!B AND D
00000001100000001101001000100001
:B AND C

(!B AND D) OR (B AND C)
00100011100000001111101000100011
:F

01011010100000100111100110011001
:K
10110110000010100010000100111011
:A lrot 5
00100011100000001111101000100011
:F

:(A lrot 5) + F
11101100110001011000110110101111 0
:Out

11101100110001011000110110101111 0
:(A lrot 5) + F
10001010110001010000101010111100
:E

:(A lrot 5) + F + E
10011001000101000000100110000110 10
:Out

10011001000101000000100110000110 10
:(A lrot 5) + F + E
01011010100000100111100110011001
:K

:(A lrot 5) + F + E + K
11010111111011010010100111111011 0011
:Out

11010111111011010010100111111011 0011
:(A lrot 5) + F + E + K
11010110110000101110010011001010
:Word 16

:(A lrot 5) + F + E + K + Word 16
11111001010110010101100001000111110 1
:temp

10010101100101011000010001111101
:truncated temp
00101011100000000011110000000011
:E = D
10010001110111011111001010101011
:D = C
01000010011000000011010111001101
:C = B Left Rotate 30
11011101101100000101000100001001
:B = A
10010101100101011000010001111101
:A = Temp

Word 17

00100010010011111010111011110110
:!B
10010001110111011111001010101011
:D

!B AND D
00000000010011011010001010100010
:Out

11011101101100000101000100001001
:B
01000010011000000011010111001101
:C

B AND C
01000000001000000001000100001001
:Out

00000000010011011010001010100010
:!B AND D
01000000001000000001000100001001
:B AND C

(!B AND D) OR (B AND C)
01000000011011011011001110101011
:F

01011010100000100111100110011001
:K

10110010101100001000111110110010
:A lrot 5
01000000011011011011001110101011
:F

:(A lrot 5) + F
11111001100011110010000110101110 1
:Out

11111001100011110010000110101110 1
:(A lrot 5) + F
00101011100000000011110000000011
:E

:(A lrot 5) + F + E
10000111101001111001111111011000 00
:Out

10000111101001111001111111011000 00
:(A lrot 5) + F + E
01011010100000100111100110011001
:K

:(A lrot 5) + F + E + K
11001111001001000001111100011111001
:Out

11001111001001000001111100011111001
:(A lrot 5) + F + E + K
11001010110110100100000100000000
:Word 17

:(A lrot 5) + F + E + K + Word 17
11110100001111111011001110011111 1001
:temp

01000011111111011001110011111 1001
:truncated temp
10010001110111011111001010101011
:E = D
01000010011000000011010111001101
:D = C
01110111011011000001010001000010
:C = B Left Rotate 30
10010101100101011000010001111101
:B = A
01000011111111011001110011111 1001
:A = Temp

Word 18

01101010011010100111101110000010
:!B
01000010011000000011010111001101
:D

!B AND D
01000010011000000011000110000000
:Out

10010101100101011000010001111101
:B
01110111011011000001010001000010
:C

B AND C
00010101000001000000010001000000
:Out

01000010011000000011000110000000
:!B AND D
00010101000001000000010001000000
:B AND C

(!B AND D) OR (B AND C)
01010111011001000011010111000000
:F

01011010100000100111100110011001
:K
01111111011001110011111100101000
:A lrot 5
01010111011001000011010111000000
:F

:(A lrot 5) + F
11101011011001011011101001110100 0
:Out

11101011011001011011101001110100 0
:(A lrot 5) + F
10010001110111011111001010101011
:E

:(A lrot 5) + F + E
10011010001010100101100111100100 11
:Out

10011010001010100101100111100100 11
:(A lrot 5) + F + E
01011010100000100111100110011001
:K

:(A lrot 5) + F + E + K
11011000011001010111110000100101100
:Out

11011000011001010111110000100101100
:(A lrot 5) + F + E + K
00000000000000000000000001110000
:Word 18

:(A lrot 5) + F + E + K + Word 18
11101100001100101011111000011001 1100
:temp

11000011001010111110000110011100
:truncated temp
01000010011000000011010111001101
:E = D
01110111011011000001010001000010
:D = C
01100101011001010110000100011111
:C = B Left Rotate 30
01000011111110110011100111111001
:B = A
11000011001010111110000110011100
:A = Temp

Word 19

10111100000001001100011000000110
:!B
01110111011011000001010001000010
:D

!B AND D
00110100000001000000010000000010
:Out

01000011111110110011100111111001
:B
01100101011001010110000100011111
:C

B AND C
01000001011000010010000100011001
:Out

00110100000001000000010000000010
:!B AND D
01000001011000010010000100011001
:B AND C

(!B AND D) OR (B AND C)
01110101011001010010010100011011
:F

01011010100000100111100110011001
:K
01100101011111000011001110011000
:A lrot 5
01110101011001010010010100011011
:F

:(A lrot 5) + F
11101101011100001010110001011 0011
:Out

11101101011100001010110001011 0011
:(A lrot 5) + F
01000010011000000011010111001101
:E

:(A lrot 5) + F + E
10000111010100000110001110100000 00
:Out

10000111010100000110001110100000 00
:(A lrot 5) + F + E
01011010100000100111100110011001
:K

:(A lrot 5) + F + E + K
11001110111110001000000100000011001
:Out

11001110111110001000000100000011001
:(A lrot 5) + F + E + K
10101101100001011100100110010101
:Word 19

:(A lrot 5) + F + E + K + Word 19
11110010010101001001110100011010 1110
:temp

00100101010010011101000110101110
:truncated temp
01110111011011000001010001000010
:E = D
01100101011001010110000100011111
:D = C
01010000111111101100111001111110
:C = B Left Rotate 30
11000011001010111110000110011100
:B = A
00100101010010011101000110101110
:A = Temp

Word 20

11000011001010111110000110011100
:B
01010000111111101100111001111110
:C

B XOR C
10010011110101010010111111100010
:Out

10010011110101010010111111100010
:B XOR C
01100101011001010110000100011111
:D

(B XOR C) XOR D
11110110101100000100111011111101
:F

01101110110110011110101110100001
:K
10101001001110100011010111000100
:A lrot 5
11110110101100000100111011111101
:F

:(A lrot 5) + F
11001111111101010100001001100001
:Out

11001111111101010100001001100001
:(A lrot 5) + F
01110111011011000001010001000010
:E

:(A lrot 5) + F + E

10000101110101011010011001000000011
:Out

10000101110101011010011001000000011
:(A lrot 5) + F + E
01101110110110011111010111010000 1
:K

:(A lrot 5) + F + E + K
11010000110001100001000010010100100
:Out

11010000110001100001000010010100100
:(A lrot 5) + F + E + K
10010101101101001000001000000001
:Word 20

:(A lrot 5) + F + E + K + Word 20
11110001101111100101000011010100101
:temp

00011011111001010000011010100101
:truncated temp
01100101011001010110000100011111
:E = D
01010000111111101100111001111110
:D = C
00110000110010101111100001100111
:C = B Left Rotate 30
00100101010010011101000110101110
:B = A
00011011111001010000011010100101
:A = Temp

Word 21

00100101010010011101000110101110
:B
00110000110010101111100001100111
:C

B XOR C
00010101100000110010100111001001
:Out

00010101100000110010100111001001
:B XOR C
01010000111111101100111001111110
:D

(B XOR C) XOR D
01000101011111011110011110110111
:F

01101110110110011111010111010000 1
:K
01111100101000001101010010100011
:A lrot 5
01000101011111011110011110110111
:F

:(A lrot 5) + F
11100001000011110101111000101101 0
:Out

11100001000011110101111000101101 0
:(A lrot 5) + F
01100101011001010110000100011111
:E

:(A lrot 5) + F + E
10001001111000010000011101011110 01
:Out

10001001111000010000011101011110 01
:(A lrot 5) + F + E
01101110110110011111010111010000 1
:K

:(A lrot 5) + F + E + K
11010010110010111100000100100011010
:Out

11010010110010111100000100100011010
:(A lrot 5) + F + E + K
00000000000000000000000011100000
:Word 21

:(A lrot 5) + F + E + K + Word 21
11101001011001011110000010011111 1010
:temp

10010110010111100000100111111010
:truncated temp
01010000111111101100111001111110
:E = D
00110000110010101111100001100111
:D = C

10001001010100100111010001101011
:C = B Left Rotate 30
00011011111001010000011010100101
:B = A
10010110010111100000100111111010
:A = Temp

Word 22

00011011111001010000011010100101
:B
10001001010100100111010001101011
:C

B XOR C
10010010101101110111001011001110
:Out

10010010101101110111001011001110
:B XOR C
00110000110010101111100001100111
:D

(B XOR C) XOR D
10100010011111011000101010101001
:F

01101110110110011111010111010000 1
:K
11001011110000010011111101010010
:A lrot 5
10100010011111011000101010101001
:F

:(A lrot 5) + F
10110111000111110110010011111 1011
:Out

10110111000111110110010011111 1011
:(A lrot 5) + F
01010000111111101100111001111110
:E

:(A lrot 5) + F + E
11101111110011110110011000011110 01
:Out

11101111110011110110011000011110 01
:(A lrot 5) + F + E

01101110110110011110101110100001
:K

:(A lrot 5) + F + E + K
10000101110000101111000010000011010
:Out

10000101110000101111000010000011010
:(A lrot 5) + F + E + K
01011011000010111001001100101011
:Word 22

:(A lrot 5) + F + E + K + Word 22
11001000100100100011000101110100 0101
:temp

10001001001000110001011101000101
:truncated temp
00110000110010101111100001100111
:E = D
10001001010100100111010001101011
:D = C
01000110111110010100000110101001
:C = B Left Rotate 30
10010110010111100000100111111010
:B = A
10001001001000110001011101000101
:A = Temp

Word 23

10010110010111100000100111111010
:B
01000110111110010100000110101001
:C

B XOR C
11010000101001110100100001010011
:Out

11010000101001110100100001010011
:B XOR C
10001001010100100111010001101011
:D

(B XOR C) XOR D
01011001111101010011110000111000
:F

01101110110110011110101110100001
:K
00100100011000101110100010110001
:A lrot 5
01011001111101010011110000111000
:F

:(A lrot 5) + F
10111111001011000001001011101001
:Out

10111111001011000001001011101001
:(A lrot 5) + F
00110000110010101111100001100111
:E

:(A lrot 5) + F + E
11101011110010001100011101010000
:Out

11101011110010001100011101010000
:(A lrot 5) + F + E
01101110110110011110101110100001
:K

:(A lrot 5) + F + E + K
10000011101111111010000100011110001
:Out

10000011101111111010000100011110001
:(A lrot 5) + F + E + K
00101011011010010000010001110011
:Word 23

:(A lrot 5) + F + E + K + Word 23
11000100100101100110000011010110010 0
:temp

01001001011001100000110101100100
:truncated temp
10001001010100100111010001101011
:E = D
01000110111110010100000110101001
:D = C
10100101100101111000001001111110
:C = B Left Rotate 30
10001001001000110001011101000101
:B = A
01001001011001100000110101100100
:A = Temp

Word 24

10001001001000110001011101000101
:B
10100101100101111000001001111110
:C

B XOR C
00101100101101001001010100111011
:Out

00101100101101001001010100111011
:B XOR C
01000110111110010100000110101001
:D

(B XOR C) XOR D
01101010010011011101010010010010
:F

01101110110110011111010111010000 1
:K
00101100110000011010110010001001
:A lrot 5
01101010010011011101010010010010
:F

:(A lrot 5) + F
11001011100001111100000010001 1011
:Out

11001011100001111100000010001 1011
:(A lrot 5) + F
10001001010100100111010001101011
:E

:(A lrot 5) + F + E
10001000000110000111110101100001 10
:Out

10001000000110000111110101100001 10
:(A lrot 5) + F + E
01101110110110011111010111010000 1
:K

:(A lrot 5) + F + E + K
11010001111001110111110000100100111
:Out

11010001111001110111110000100100111
:(A lrot 5) + F + E + K
10101101100001011100100001010101
:Word 24

:(A lrot 5) + F + E + K + Word 24
11110011110011000001101010010111100
:temp

00111100110000011010100101111100
:truncated temp
01000110111110010100000110101001
:E = D
10100101100101111000001001111110
:D = C
01100010010010001100010111010001
:C = B Left Rotate 30
01001001011001100000110101100100
:B = A
00111100110000011010100101111100
:A = Temp

Word 25

01001001011001100000110101100100
:B
01100010010010001100010111010001
:C

B XOR C
00101011001011101100100010110101
:Out

00101011001011101100100010110101
:B XOR C
10100101100101111000001001111110
:D

(B XOR C) XOR D
10001110101110010100101011001011
:F

01101110110110011110101110100001
:K
10011000001101010010111110000111
:A lrot 5
10001110101110010100101011001011
:F

:(A lrot 5) + F
10010011011101110011111010010010
:Out

10010011011101110011111010010010
:(A lrot 5) + F
01000110111110010100000110101001
:E

:(A lrot 5) + F + E
11011011011110011110111011111111011
:Out

11011011011110011110111011111111011
:(A lrot 5) + F + E
01101110110110011111010111010000 1
:K

:(A lrot 5) + F + E + K
11111011100110000011010011110011100
:Out

11111011100110000011010011110011100
:(A lrot 5) + F + E + K
00100011101000111010010001010111
:Word 25

:(A lrot 5) + F + E + K + Word 25
10000000000001100101010010111111 10011
:temp

00000000011001010100101111110011
:truncated temp
10100101100101111000001001111110
:E = D
01100010010010001100010111010001
:D = C
00010010010110011000001101011001
:C = B Left Rotate 30
00111100110000011010100101111100
:B = A
00000000011001010100101111110011
:A = Temp

Word 26

00111100110000011010100101111100
:B

00010010010110011000001101011001
:C

B XOR C
00101110100110000010101000100101
:Out

00101110100110000010101000100101
:B XOR C
01100010010010001100010111010001
:D

(B XOR C) XOR D
01001100110100001110111111110100
:F

01101110110110011111010111010000 1
:K
00001100101010010111111001100000
:A lrot 5
01001100110100001110111111110100
:F

:(A lrot 5) + F
10101100101111010011011100 1010100
:Out

10101100101111010011011100 1010100
:(A lrot 5) + F
10100101100101111000001001111110
:E

:(A lrot 5) + F + E
11111111110001000111110000110100 10
:Out

11111111110001000111110000110100 10
:(A lrot 5) + F + E
01101110110110011111010111010000 1
:K

:(A lrot 5) + F + E + K
10001101101111010111101110001110011
:Out

10001101101111010111101110001110011
:(A lrot 5) + F + E + K
01010110110100100000100000000110
:Word 26

:(A lrot 5) + F + E + K + Word 26
11001100010010111101111001000111100 1
:temp

11000100101111011110010001111001
:truncated temp
01100010010010001100010111010001
:E = D
00010010010110011000001101011001
:D = C
00001111001100000110101001011111
:C = B Left Rotate 30
00000000011001010100101111110011
:B = A
11000100101111011110010001111001
:A = Temp

Word 27

00000000011001010100101111110011
:B
00001111001100000110101001011111
:C

B XOR C
00001111010101010010000110101100
:Out

00001111010101010010000110101100
:B XOR C
00010010010110011000001101011001
:D

(B XOR C) XOR D
00011101000011001010001011110101
:F

01101110110110011110101110100001
:K
10010111101111001000111100111000
:A lrot 5
00011101000011001010001011110101
:F

:(A lrot 5) + F
11011010011001001001100100010 1101
:Out

11011010011001001001100100010110 1
:(A lrot 5) + F
01100010010010001100010111010001
:E

:(A lrot 5) + F + E
10000101110001000111110111111111110
:Out

10000101110001000111110111111111110
:(A lrot 5) + F + E
01101110110110011110101110100001
:K

:(A lrot 5) + F + E + K
11010000101111010111110001110011111
:Out

11010000101111010111110001110011111
:(A lrot 5) + F + E + K
00000000000000000000001110000000
:Word 27

:(A lrot 5) + F + E + K + Word 27
11101000010111101011111001110011111
:temp

10000101111010111110011100011111
:truncated temp
00010010010110011000001101011001
:E = D
00001111001100000110101001011111
:D = C
11000000000110010101001011111100
:C = B Left Rotate 30
11000100101111011110010001111001
:B = A
10000101111010111110011100011111
:A = Temp

Word 28

11000100101111011110010001111001
:B
11000000000110010101001011111100
:C

B XOR C
00000100101001001011011010000101
:Out

00000100101001001011011010000101
:B XOR C
00001111001100000110101001011111
:D

(B XOR C) XOR D
00001011100101001101110011011010
:F

01101110110110011110101110100001
:K
10111101011111001110001111110000
:A lrot 5
00001011100101001101110011011010
:F

:(A lrot 5) + F
11100100100010001110000011001010
:Out

11100100100010001110000011001010
:(A lrot 5) + F
00010010010110011000001101011001
:E

:(A lrot 5) + F + E
11110110110110101101000100000100011
:Out

11110110110110101101000100000100011
:(A lrot 5) + F + E
01101110110110011110101110100001
:K

:(A lrot 5) + F + E + K
10001001010010001010010111111000100
:Out

10001001010010001010010111111000100
:(A lrot 5) + F + E + K
01101100001011100100110010101101
:Word 28

:(A lrot 5) + F + E + K + Word 28
11001011011001110011011111000111000 1
:temp

10110110011100110111110001110001
:truncated temp
00001111001100000110101001011111
:E = D
11000000000110010101001011111100
:D = C
01110001001011110111100100011110
:C = B Left Rotate 30
10000101111010111110011100011111
:B = A
10110110011100110111110001110001
:A = Temp

Word 29

10000101111010111110011100011111
:B
01110001001011110111100100011110
:C

B XOR C
11110100110001001001111000000001
:Out

11110100110001001001111000000001
:B XOR C
11000000000110010101001011111100
:D

(B XOR C) XOR D
00110100110111011100110011111101
:F

01101110110110011110101110100001
:K
11001110011011111000111000110110
:A lrot 5
00110100110111011100110011111101
:F

:(A lrot 5) + F
10000001101001101010110110011 0011
:Out

10000001101001101010110110011 0011
:(A lrot 5) + F
00001111001100000110101001011111
:E

:(A lrot 5) + F + E

11000100100111110111000101100100 10
:Out

11000100100111110111000101100100 10
:(A lrot 5) + F + E
01101110110110011111010111010000 1
:K

:(A lrot 5) + F + E + K
11110000001010101111011000100110011
:Out

11110000001010101111011000100110011
:(A lrot 5) + F + E + K
10101101101001000001000110111100
:Word 29

:(A lrot 5) + F + E + K + Word 29
10000010111011111011110000101110111 11
:temp

00101110111110111100001011101111
:truncated temp
11000000000110010101001011111100
:E = D
01110001001011110111100100011110
:D = C
11100001011110101111100111000111
:C = B Left Rotate 30
10110110011100110111110001110001
:B = A
00101110111110111100001011101111
:A = Temp

Word 30

10110110011100110111110001110001
:B
11100001011110101111100111000111
:C

B XOR C
01010111000010011000010110110110
:Out

01010111000010011000010110110110
:B XOR C
01110001001011110111100100011110
:D

(B XOR C) XOR D
00100110001001101111110010101000
:F

01101110110110011110101110100001
:K
11011111011110000101110111100101
:A lrot 5
00100110001001101111110010101000
:F

:(A lrot 5) + F
10000010110011111010110101000 1101
:Out

10000010110011111010110101000 1101
:(A lrot 5) + F
11000000000110010101001011111100
:E

:(A lrot 5) + F + E
11110001011011100010101101100 01001
:Out

11110001011011100010101101100 01001
:(A lrot 5) + F + E
01101110110110011110101110100001
:K

:(A lrot 5) + F + E + K
10000110100100100101001100100101010
:Out

10000110100100100101001100100101010
:(A lrot 5) + F + E + K
00011011100100101110100011000011
:Word 30

:(A lrot 5) + F + E + K + Word 30
11000101000000100101100000 0111101101
:temp

01010000001001011000000111101101
:truncated temp
01110001001011110111100100011110
:E = D
11100001011110101111100111000111
:D = C

01101101100111001101111100011100
:C = B Left Rotate 30
00101110111110111100001011101111
:B = A
01010000001001011000000111101101
:A = Temp

Word 31

00101110111110111100001011101111
:B
01101101100111001101111100011100
:C

B XOR C
01000011011001110001110111110011
:Out

01000011011001110001110111110011
:B XOR C
11100001011110101111100111000111
:D

(B XOR C) XOR D
10100010000111011110010000110100
:F

01101110110110011111010111010000 1
:K
00000100101100000011110110101010
:A lrot 5
10100010000111011110010000110100
:F

:(A lrot 5) + F
11010011011001110001000011101111 0
:Out

11010011011001110001000011101111 0
:(A lrot 5) + F
01110001001011110111100100011110
:E

:(A lrot 5) + F + E
10000101111111111011001101011111100
:Out

10000101111111111011001101011111100
:(A lrot 5) + F + E

01101110110110011110101110100001
:K

:(A lrot 5) + F + E + K
11010000110110101111000011010011101
:Out

11010000110110101111000011010011101
:(A lrot 5) + F + E + K
00011011001110100001001111001101
:Word 31

:(A lrot 5) + F + E + K + Word 31
11101010001000010001100110100110101 0
:temp

10100010000100011001101001101010
:truncated temp
11100001011110101111100111000111
:E = D
01101101100111001101111100011100
:D = C
11001011101111101111000010111011
:C = B Left Rotate 30
01010000001001011000000111101101
:B = A
10100010000100011001101001101010
:A = Temp

Word 32

01010000001001011000000111101101
:B
11001011101111101111000010111011
:C

B XOR C
10011011100110110111000101010110
:Out

10011011100110110111000101010110
:B XOR C
01101101100111001101111100011100
:D

(B XOR C) XOR D
11110110000001111010111001001010
:F

01101110110110011110101110100001
:K
01000010001100110100110101010100
:A lrot 5
11110110000001111010111001001010
:F

:(A lrot 5) + F
10011100000111010111101110011110
:Out

10011100000111010111101110011110
:(A lrot 5) + F
11100001011110101111100111000111
:E

:(A lrot 5) + F + E
10000110011011010111110101011001 01
:Out

10000110011011010111110101011001 01
:(A lrot 5) + F + E
01101110110110011110101110100001
:K

:(A lrot 5) + F + E + K
11010001000100011111110000100000110
:Out

11010001000100011111110000100000110
:(A lrot 5) + F + E + K
10101101110001100111101010100111
:Word 32

:(A lrot 5) + F + E + K + Word 32
11110011011001010110010110111010 1101
:temp

00110110010101100101101110101101
:truncated temp
01101101100111001101111100011100
:E = D
11001011101111101111000010111011
:D = C
01010100000010010110000001111011
:C = B Left Rotate 30
10100010000100011001101001101010
:B = A
00110110010101100101101110101101
:A = Temp

Word 33

10100010000100011001101001101010
:B
01010100000010010110000001111011
:C

B XOR C
11110110000110001111101000010001
:Out

11110110000110001111101000010001
:B XOR C
11001011101111101111000010111011
:D

(B XOR C) XOR D
00111101101001100000101010101010
:F

01101110110110011110101110100001
:K
11001010110010110111010110100110
:A lrot 5
00111101101001100000101010101010
:F

:(A lrot 5) + F
10000100001110001100000000010000
:Out

10000100001110001100000000010000
:(A lrot 5) + F
01101101100111001101111100011100
:E

:(A lrot 5) + F + E
11011101100000111001011111101101100
:Out

11011101100000111001011111101101100
:(A lrot 5) + F + E
01101110110110011110101110100001
:K

:(A lrot 5) + F + E + K
11111100100111010000100101100001101
:Out

11111100100111010000100101100001101
:(A lrot 5) + F + E + K
10111110110111011000100000000010
:Word 33

:(A lrot 5) + F + E + K + Word 33
10001010001111000101110100110000111 1
:temp

10100011110001011101001100001111
:truncated temp
11001011101111101111000010111011
:E = D
01010100000010010110000001111011
:D = C
10101000100001000110011010011010
:C = B Left Rotate 30
00110110010101100101101110101101
:B = A
10100011110001011101001100001111
:A = Temp

Word 34

00110110010101100101101110101101
:B
10101000100001000110011010011010
:C

B XOR C
10011110110100100011110100110111
:Out

10011110110100100011110100110111
:B XOR C
01010100000010010110000001111011
:D

(B XOR C) XOR D
11001010110110110101110101001100
:F

01101110110110011110101110100001
:K
01111000101110100110000111110100
:A lrot 5
11001010110110110101110101001100
:F

:(A lrot 5) + F
10100001110010101101111101000000
:Out

10100001110010101101111101000000
:(A lrot 5) + F
11001011101111101111000010111011
:E

:(A lrot 5) + F + E
10000011110101010010101111111111011
:Out

10000011110101010010101111111111011
:(A lrot 5) + F + E
01101110110110011110101110100001
:K

:(A lrot 5) + F + E + K
11001111110001011101001101110011100
:Out

11001111110001011101001101110011100
:(A lrot 5) + F + E + K
10110000101110010011001101110101
:Word 34

:(A lrot 5) + F + E + K + Word 34
11110010111011100111110011110001 0001
:temp

00101110111001111100111100010001
:truncated temp
01010100000010010110000001111011
:E = D
10101000100001000110011010011010
:D = C
01001101100101011001011011101011
:C = B Left Rotate 30
10100011110001011101001100001111
:B = A
00101110111001111100111100010001
:A = Temp

Word 35

10100011110001011101001100001111
:B

01001101100101011001011011101011
:C

B XOR C
11101110010100000100010111100100
:Out

11101110010100000100010111100100
:B XOR C
10101000100001000110011010011010
:D

(B XOR C) XOR D
01000110110101000010001101111110
:F

01101110110110011111010111010000 1
:K
11011100111110011111000100010 0101
:A lrot 5
01000110110101000010001101111110
:F

:(A lrot 5) + F
10010001111001110000010110100011
:Out

10010001111001110000010110100011
:(A lrot 5) + F
01010100000010010110000001111011
:E

:(A lrot 5) + F + E
11011101111101011101100110000111 10
:Out

11011101111101011101100110000111 10
:(A lrot 5) + F + E
01101110110110011111010111010000 1
:K

:(A lrot 5) + F + E + K
11111100110101100010101000110111111
:Out

11111100110101100010101000110111111
:(A lrot 5) + F + E + K
00000000100001110110000010100100
:Word 35

:(A lrot 5) + F + E + K + Word 35
11111110011100111000101100100110011
:temp

11100111001110001011001001100011
:truncated temp
10101000100001000110011010011010
:E = D
01001101100101011001011011101011
:D = C
11101000111100010111010011000011
:C = B Left Rotate 30
00101110111001111100111100010001
:B = A
11100111001110001011001001100011
:A = Temp

Word 36

00101110111001111100111100010001
:B
11101000111100010111010011000011
:C

B XOR C
11000110000101101011101111010010
:Out

11000110000101101011101111010010
:B XOR C
01001101100101011001011011101011
:D

(B XOR C) XOR D
10001011100000110010110100111001
:F

01101110110110011110101110100001
:K
11100111000101100100110001111100
:A lrot 5
10001011100000110010110100111001
:F

:(A lrot 5) + F
10111001010011001011110011011010 1
:Out

10111001010011001011110011011010 1
:(A lrot 5) + F
10101000100001000110011010011010
:E

:(A lrot 5) + F + E
10000110110001110111100000010011 11
:Out

10000110110001110111100000010011 11
:(A lrot 5) + F + E
01101110110110011110101110100001
:K

:(A lrot 5) + F + E + K
11010001001111101111100101111110000
:Out

11010001001111101111100101111110000
:(A lrot 5) + F + E + K
00111000100110011010101100001010
:Word 36

:(A lrot 5) + F + E + K + Word 36
11101100001010010001011101101111 1010
:temp

11000010100100010111011011111010
:truncated temp
01001101100101011001011011101011
:E = D
11101000111100010111010011000011
:D = C
01001011101110011111001111000100
:C = B Left Rotate 30
11100111001110001011001001100011
:B = A
11000010100100010111011011111010
:A = Temp

Word 37

11100111001110001011001001100011
:B
01001011101110011111001111000100
:C

B XOR C
10101100100000010100000110100111
:Out

10101100100000010100000110100111
:B XOR C
11101000111100010111010011000011
:D

(B XOR C) XOR D
01000100011100000011010101100100
:F

01101110110110011111010111010000 1
:K
01010010000101110110111110101 1000
:A lrot 5
01000100011100000011010101100100
:F

:(A lrot 5) + F
11001011010011111000101001011 1100
:Out

11001011010011111000101001011 1100
:(A lrot 5) + F
01001101100101011001011011101011
:E

:(A lrot 5) + F + E
11111001000011010010101011101 00111
:Out

11111001000011010010101011101 00111
:(A lrot 5) + F + E
01101110110110011111010111010000 1
:K

:(A lrot 5) + F + E + K
10001010011000011101001011101001000
:Out

10001010011000011101001011101001000
:(A lrot 5) + F + E + K
01101100111010000100110010110100
:Word 37

:(A lrot 5) + F + E + K + Word 37
11001011111111111011011100011111111 00
:temp

10111111111101101110001111111100
:truncated temp
11101000111100010111010011000011
:E = D
01001011101110011111001111000100
:D = C
11111001110011100010110010011000
:C = B Left Rotate 30
11000010100100010111011011111010
:B = A
10111111111101101110001111111100
:A = Temp

Word 38

11000010100100010111011011111010
:B
11111001110011100010110010011000
:C

B XOR C
00111011010111110101101001100010
:Out

00111011010111110101101001100010
:B XOR C
01001011101110011111001111000100
:D

(B XOR C) XOR D
01110000111001101010100110100110
:F

01101110110110011111010111010000 1
:K
11111110110111000111111110010111
:A lrot 5
01110000111001101010100110100110
:F

:(A lrot 5) + F
10110111111000011001010010011110 1
:Out

10110111111000011001010010011110 1
:(A lrot 5) + F
11101000111100010111010011000011
:E

:(A lrot 5) + F + E

10010110001011010010011111000000000
:Out

10010110001011010010011111000000000
:(A lrot 5) + F + E
01101110110110011111010111010000 1
:K

:(A lrot 5) + F + E + K
11011000111100011101000100110100001
:Out

11011000111100011101000100110100001
:(A lrot 5) + F + E + K
11011011001101111010011000110011
:Word 38

:(A lrot 5) + F + E + K + Word 38
11111010001011000110001011111010100
:temp

10100010110001100010111111010100
:truncated temp
01001011101110011111001111000100
:E = D
11111001110011100010110010011000
:D = C
10110000101001000101110110111110
:C = B Left Rotate 30
10111111111110110111000111111100
:B = A
10100010110001100010111111010100
:A = Temp

Word 39

10111111111110110111000111111100
:B
10110000101001000101110110111110
:C

B XOR C
00001111010100101011111001000010
:Out

00001111010100101011111001000010
:B XOR C
11111001110011100010110010011000
:D

(B XOR C) XOR D
11110110100111001001001011011010
:F

01101110110110011110101110100001
:K
01011000110001011111101010010100
:A lrot 5
11110110100111001001001011011010
:F

:(A lrot 5) + F
10100111101100010100011010110111 0
:Out

10100111101100010100011010110111 0
:(A lrot 5) + F
01001011101110011111001111000100
:E

:(A lrot 5) + F + E
11100110110001110010000001001100 10
:Out

11100110110001110010000001001100 10
:(A lrot 5) + F + E
01101110110110011110101110100001
:K

:(A lrot 5) + F + E + K
10000001001111101100110110011010011
:Out

10000001001111101100110110011010011
:(A lrot 5) + F + E + K
01010110110100100011000111000110
:Word 39

:(A lrot 5) + F + E + K + Word 39
11000110000011001000100111101001100 1
:temp

01100000110010001001111010011001
:truncated temp
11111001110011100010110010011000
:E = D
10110000101001000101110110111110
:D = C

00101111111111011011100011111111
:C = B Left Rotate 30
10100010110001100010111111010100
:B = A
01100000110010001001111010011001
:A = Temp

Word 40

10100010110001100010111111010100
:B
00101111111111011011100011111111
:C

B AND C
00100010110001000010100011010100
:Out

10100010110001100010111111010100
:B
10110000101001000101110110111110
:D

B AND D
10100000100001000000110110010100
:Out

00101111111111011011100011111111
:C
10110000101001000101110110111110
:D

C AND D
00100000101001000001100010111110
:Out

00100010110001000010100011010100
:B AND C
10100000100001000000110110010100
:B AND D

(B AND C) OR (B AND D)
10100010110001000010110111010100
:Out

10100010110001000010110111010100
:(B AND C) OR (B AND D)
00100000101001000001100010111110
:C AND D

((B AND C) OR (B AND D)) OR (C AND D)
10100010111001000011110111111110
:F

10001111000110111011110011011100
:K
00011001000100111101001100101100
:A lrot 5
10100010111001000011110111111110
:F

:(A lrot 5) + F
11011101111111000000100010010101 0
:Out

11011101111111000000100010010101 0
:(A lrot 5) + F
11111001110011100010110010011000
:E

:(A lrot 5) + F + E
10101101011100011000111101110000 10
:Out

10101101011100011000111101110000 10
:(A lrot 5) + F + E
10001111000110111011110011011100
:K

:(A lrot 5) + F + E + K
11101000100111000011111101010011110
:Out

11101000100111000011111101010011110
:(A lrot 5) + F + E + K
01110100111100111110110010000000
:Word 40

:(A lrot 5) + F + E + K + Word 40
11111011100111010101111001110001111 0
:temp

10111001110101011110011100011110
:truncated temp
10110000101001000101110110111110
:E = D
00101111111111011011100011111111
:D = C

00101000101100011000101111110101
:C = B Left Rotate 30
01100000110010001001111010011001
:B = A
10111001110101011110011100011110
:A = Temp

Word 41

01100000110010001001111010011001
:B
00101000101100011000101111110101
:C

B AND C
00100000100000001000101010010001
:Out

01100000110010001001111010011001
:B
00101111111111101101110001111111
:D

B AND D
00100000110010001001100010011001
:Out

00101000101100011000101111110101
:C
00101111111111101101110001111111
:D

C AND D
00101000101100011000100011110101
:Out

00100000100000001000101010010001
:B AND C
00100000110010001001100010011001
:B AND D

(B AND C) OR (B AND D)
00100000110010001001101010011001
:Out

00100000110010001001101010011001
:(B AND C) OR (B AND D)
00101000101100011000100011110101
:C AND D

((B AND C) OR (B AND D)) OR (C AND D)
00101000111110011001101011111101
:F

10001111000110111011110011011100
:K
00111010101111001110001111010111
:A lrot 5
00101000111110011001101011111101
:F

:(A lrot 5) + F
10110001110110110011111011010100
:Out

10110001110110110011111011010100
:(A lrot 5) + F
10110000101001000101110110111110
:E

:(A lrot 5) + F + E
10000101000101101011011100100100 10
:Out

10000101000101101011011100100100 10
:(A lrot 5) + F + E
10001111000110111011110011011100
:K

:(A lrot 5) + F + E + K
11010100011011101101001100101101110
:Out

11010100011011101101001100101101110
:(A lrot 5) + F + E + K
10001100100100110001001111001100
:Word 41

:(A lrot 5) + F + E + K + Word 41
11110011000000001001101011010011101 0
:temp

00110000000010011010110100111010
:truncated temp
00101111111111011011100011111111
:E = D
00101000101100011000101111110101
:D = C

01011000001100100010011110100110
:C = B Left Rotate 30
10111001110101011110011100011110
:B = A
00110000000010011010110100111010
:A = Temp

Word 42

10111001110101011110011100011110
:B
01011000001100100010011110100110
:C

B AND C
00011000000100000010011100000110
:Out

10111001110101011110011100011110
:B
00101000101100011000101111110101
:D

B AND D
00101000100100011000001100010100
:Out

01011000001100100010011110100110
:C
00101000101100011000101111110101
:D

C AND D
00001000001100000000001110100100
:Out

00011000000100000010011100000110
:B AND C
00101000100100011000001100010100
:B AND D

(B AND C) OR (B AND D)
00111000100100011010011100010110
:Out

00111000100100011010011100010110
:(B AND C) OR (B AND D)
00001000001100000000001110100100
:C AND D

((B AND C) OR (B AND D)) OR (C AND D)
00111000101100011010011110110110
:F

10001111000110111011110011011100
:K
00000001001101011010011101000110
:A lrot 5
00111000101100011010011110110110
:F

:(A lrot 5) + F
10011100111100111010011101111100
:Out

10011100111100111010011101111100
:(A lrot 5) + F
00101111111111011011100011111111
:E

:(A lrot 5) + F + E
11011010011110010100000111111111011
:Out

11011010011110010100000111111111011
:(A lrot 5) + F + E
10001111000110111011110011011100
:K

:(A lrot 5) + F + E + K
11111111001000000001100010011010111
:Out

11111111001000000001100010011010111
:(A lrot 5) + F + E + K
10111001001011101000110000110001
:Word 42

:(A lrot 5) + F + E + K + Word 42
10001011001000101111010100010000 1000
:temp

10110010001011110101000100001000
:truncated temp
00101000101100011000101111110101
:E = D
01011000001100100010011110100110
:D = C

10101110011101010111100111000111
:C = B Left Rotate 30
00110000000010011010110100111010
:B = A
10110010001011110101000100001000
:A = Temp

Word 43

00110000000010011010110100111010
:B
10101110011101010111100111000111
:C

B AND C
00100000000000010010100100000010
:Out

00110000000010011010110100111010
:B
01011000001100100010011110100110
:D

B AND D
00010000000000000010010100100010
:Out

10101110011101010111100111000111
:C
01011000001100100010011110100110
:D

C AND D
00001000001100000010000110000110
:Out

00100000000000010010100100000010
:B AND C
00010000000000000010010100100010
:B AND D

(B AND C) OR (B AND D)
00110000000000010010110100100010
:Out

00110000000000010010110100100010
:(B AND C) OR (B AND D)
00001000001100000010000110000110
:C AND D

((B AND C) OR (B AND D)) OR (C AND D)
00111000001100010010110110100110
:F

10001111000110111011110011011100
:K
01000101111010100010000100010110
:A lrot 5
00111000001100010010110110100110
:F

:(A lrot 5) + F
10111111000011011010011101011100
:Out

10111111000011011010011101011100
:(A lrot 5) + F
00101000101100011000101111110101
:E

:(A lrot 5) + F + E
11101001101100110011011010110001
:Out

11101001101100110011011010110001
:(A lrot 5) + F + E
10001111000110111011110011011100
:K

:(A lrot 5) + F + E + K
10000110101111010001001011110001101
:Out

10000110101111010001001011110001101
:(A lrot 5) + F + E + K
10110011101000010011110000110001
:Word 43

:(A lrot 5) + F + E + K + Word 43
11001110100110001001110100111011110
:temp

11101001100010011101001110111110
:truncated temp
01011000001100100010011110100110
:E = D
10101110011101010111100111000111
:D = C

10001100000000100110101101001110
:C = B Left Rotate 30
10110010001011110101000100001000
:B = A
11101001100010011101001110111110
:A = Temp

Word 44

10110010001011110101000100001000
:B
10001100000000100110101101001110
:C

B AND C
10000000000000100100000100001000
:Out

10110010001011110101000100001000
:B
10101110011101010111100111000111
:D

B AND D
10100010001001010101000100000000
:Out

10001100000000100110101101001110
:C
10101110011101010111100111000111
:D

C AND D
10001100000000000110100101000110
:Out

10000000000000100100000100001000
:B AND C
10100010001001010101000100000000
:B AND D

(B AND C) OR (B AND D)
10100010001001110101000100001000
:Out

10100010001001110101000100001000
:(B AND C) OR (B AND D)
10001100000000000110100101000110
:C AND D

((B AND C) OR (B AND D)) OR (C AND D)
10101110001001110111100101001110
:F

10001111000110111011110011011100
:K
00110001001110100111011111011101
:A lrot 5
10101110001001110111100101001110
:F

:(A lrot 5) + F
11101111101100001111100010010101 1
:Out

11101111101100001111100010010101 1
:(A lrot 5) + F
01011000001100100010011110100110
:E

:(A lrot 5) + F + E
10001101111001010000011000110100 01
:Out

10001101111001010000011000110100 01
:(A lrot 5) + F + E
10001111000110111011110011011100
:K

:(A lrot 5) + F + E + K
11011000110101011111101010110101101
:Out

11011000110101011111101010110101101
:(A lrot 5) + F + E + K
10000111011011000011100101010001
:Word 44

:(A lrot 5) + F + E + K + Word 44
11110100111000011100000011101111111 0
:temp

01001110000111000000111011111110
:truncated temp
10101110011101010111100111000111
:E = D
10001100000000100110101101001110
:D = C

00101100100010111101010001000010
:C = B Left Rotate 30
11101001100010011101001110111110
:B = A
01001110000111000000111011111110
:A = Temp

Word 45

11101001100010011101001110111110
:B
00101100100010111101010001000010
:C

B AND C
00101000100010011101000000000010
:Out

11101001100010011101001110111110
:B
10001100000000010011010110100 1110
:D

B AND D
10001000000000000100001100001110
:Out

00101100100010111101010001000010
:C
10001100000000010011010110100 1110
:D

C AND D
00001100000000010010000000 1000010
:Out

00101000100010011101000000000010
:B AND C
10001000000000000100001100001110
:B AND D

(B AND C) OR (B AND D)
10101000100010011101001100001110
:Out

10101000100010011101001100001110
:(B AND C) OR (B AND D)
00001100000000010010000000 1000010
:C AND D

((B AND C) OR (B AND D)) OR (C AND D)
10101100100010111101001101001110
:F

10001111000110111011110011011100
:K
11000011100000011101111111001001
:A lrot 5
10101100100010111101001101001110
:F

:(A lrot 5) + F
10111000000001101101100110010111
:Out

10111000000001101101100110010111
:(A lrot 5) + F
10101110011101010111100111000111
:E

:(A lrot 5) + F + E
10000111101000001100101100110111110
:Out

10000111101000001100101100110111110
:(A lrot 5) + F + E
10001111000110111011110011011100
:K

:(A lrot 5) + F + E + K
11010101101100111101110100110111010
:Out

11010101101100111101110100110111010
:(A lrot 5) + F + E + K
11000110101100011000010111101000
:Word 45

:(A lrot 5) + F + E + K + Word 45
11110111010001010000011011111010010
:temp

01110100010100000110111110100010
:truncated temp
10001100000000100110101101001110
:E = D
00101100100010111101010001000010
:D = C

10111010011000100111010011101111
:C = B Left Rotate 30
01001110000111000000111011111110
:B = A
01110100010100000110111110100010
:A = Temp

Word 46

01001110000111000000111011111110
:B
10111010011000100111010011101111
:C

B AND C
00001010000000000000010011101110
:Out

01001110000111000000111011111110
:B
00101100100010111101010001000010
:D

B AND D
00001100000010000000010001000010
:Out

10111010011000100111010011101111
:C
00101100100010111101010001000010
:D

C AND D
00101000000000100101010001000010
:Out

00001010000000000000010011101110
:B AND C
00001100000010000000010001000010
:B AND D

(B AND C) OR (B AND D)
00001110000010000000010011101110
:Out

00001110000010000000010011101110
:(B AND C) OR (B AND D)
00101000000000100101010001000010
:C AND D

((B AND C) OR (B AND D)) OR (C AND D)
00101110000010100101010011101110
:F

10001111000110111011110011011100
:K
10001010000011011111010001001110
:A lrot 5
00101110000010100101010011101110
:F

:(A lrot 5) + F
11011100000011000010010010011100
:Out

11011100000011000010010010011100
:(A lrot 5) + F
10001100000000100110101101001110
:E

:(A lrot 5) + F + E
10010001000001101010110100100010 10
:Out

10010001000001101010110100100010 10
:(A lrot 5) + F + E
10001111000110111011110011011100
:K

:(A lrot 5) + F + E + K
11011010011001101100111000101100110
:Out

11011010011001101100111000101100110
:(A lrot 5) + F + E + K
10111101100001000001000011001101
:Word 46

:(A lrot 5) + F + E + K + Word 46
11111001000010111010100000100011 0011
:temp

10010000101110101000001000110011
:truncated temp
00101100100010111101010001000010
:E = D
10111010011000100111010011101111
:D = C

10010011100001110000001110111111
:C = B Left Rotate 30
01110100010100000110111110100010
:B = A
10010000101110101000001000110011
:A = Temp

Word 47

01110100010100000110111110100010
:B
10010011100001110000001110111111
:C

B AND C
00010000000000000000001110100010
:Out

01110100010100000110111110100010
:B
10111010011000100111010011101111
:D

B AND D
00110000010000000110010010100010
:Out

10010011100001110000001110111111
:C
10111010011000100111010011101111
:D

C AND D
10010010000000100000000010101111
:Out

00010000000000000000001110100010
:B AND C
00110000010000000110010010100010
:B AND D

(B AND C) OR (B AND D)
00110000010000000110011110100010
:Out

00110000010000000110011110100010
:(B AND C) OR (B AND D)
10010010000000100000000010101111
:C AND D

((B AND C) OR (B AND D)) OR (C AND D)
10110010010000100110011110101111
:F

10001111000110111011110011011100
:K
00010111010100000100011001110010
:A lrot 5
10110010010000100110011110101111
:F

:(A lrot 5) + F
11100100110010010101011000100001
:Out

11100100110010010101011000100001
:(A lrot 5) + F
00101100100010111101010001000010
:E

:(A lrot 5) + F + E
11111101100001111010000010011000 11
:Out

11111101100001111010000010011000 11
:(A lrot 5) + F + E
10001111000110111011110011011100
:K

:(A lrot 5) + F + E + K
10010000101001110100011111100111111
:Out

10010000101001110100011111100111111
:(A lrot 5) + F + E + K
11101000101100110010011010110000
:Word 47

:(A lrot 5) + F + E + K + Word 47
11010110110111101101011001011110 1111
:temp

01101101111011010110010111101111
:truncated temp
10111010011000100111010011101111
:E = D
10010011100001110000001110111111
:D = C

10011101000101000001101111101000
:C = B Left Rotate 30
10010000101110101000001000110011
:B = A
01101101111011010110010111101111
:A = Temp

Word 48

10010000101110101000001000110011
:B
10011101000101000001101111101000
:C

B AND C
10010000000100000000001000100000
:Out

10010000101110101000001000110011
:B
10010011100001110000001110111111
:D

B AND D
10010000100000100000001000110011
:Out

10011101000101000001101111101000
:C
10010011100001110000001110111111
:D

C AND D
10010001000001000000001110101000
:Out

10010000000100000000001000100000
:B AND C
10010000100000100000001000110011
:B AND D

(B AND C) OR (B AND D)
10010000100100100000001000110011
:Out

10010000100100100000001000110011
:(B AND C) OR (B AND D)
10010001000001000000001110101000
:C AND D

((B AND C) OR (B AND D)) OR (C AND D)
10010001100101100000001110111011
:F

10001111000110111011110011011100
:K
10111101101011001011110111101101
:A lrot 5
10010001100101100000001110111011
:F

:(A lrot 5) + F
10100111101000010110000011010100 0
:Out

10100111101000010110000011010100 0
:(A lrot 5) + F
10111010011000100111010011101111
:E

:(A lrot 5) + F + E
10000010011010010100110110100101 11
:Out

10000010011010010100110110100101 11
:(A lrot 5) + F + E
10001111000110111011110011011100
:K

:(A lrot 5) + F + E + K
11010011000110000001111001101110011
:Out

11010011000110000001111001101110011
:(A lrot 5) + F + E + K
01011110011110100100000101110101
:Word 48

:(A lrot 5) + F + E + K + Word 48
11101111011100111011001101001110100 0
:temp

11110111001110110011010011101000
:truncated temp
10010011100001110000001110111111
:E = D
10011101000101000001101111101000
:D = C

11100100001011101010000010001100
:C = B Left Rotate 30
01101101111011010110010111101111
:B = A
11110111001110110011010011101000
:A = Temp

Word 49

01101101111011010110010111101111
:B
11100100001011101010000010001100
:C

B AND C
01100100001011000010000010001100
:Out

01101101111011010110010111101111
:B
10011101000101000001101111101000
:D

B AND D
00001101000001000000000111101000
:Out

11100100001011101010000010001100
:C
10011101000101000001101111101000
:D

C AND D
10000100000001000000000010001000
:Out

01100100001011000010000010001100
:B AND C
00001101000001000000000111101000
:B AND D

(B AND C) OR (B AND D)
01101101001011000010000111101100
:Out

01101101001011000010000111101100
:(B AND C) OR (B AND D)
10000100000001000000000010001000
:C AND D

((B AND C) OR (B AND D)) OR (C AND D)
11101101001011000010000111101100
:F

10001111000110111011110011011100
:K
11100111011001101001110100011110
:A lrot 5
11101101001011000010000111101100
:F

:(A lrot 5) + F
11101010010010010101111110000 1010
:Out

11101010010010010101111110000 1010
:(A lrot 5) + F
10010011100001110000001110111111
:E

:(A lrot 5) + F + E
10011010000001100111000010110010 01
:Out

10011010000001100111000010110010 01
:(A lrot 5) + F + E
10001111000110111011110011011100
:K

:(A lrot 5) + F + E + K
11011110111001101010111111110100101
:Out

11011110111001101010111111110100101
:(A lrot 5) + F + E + K
00011110100110111101011101001111
:Word 49

:(A lrot 5) + F + E + K + Word 49
11110001010111010001010101101111 0100
:temp

00010101110100010101011011110100
:truncated temp
10011101000101000001101111101000
:E = D
11100100001011101010000010001100
:D = C

11011011011110110101100101111011
:C = B Left Rotate 30
11110111001110110011010011101000
:B = A
00010101110100010101011011110100
:A = Temp

Word 50

11110111001110110011010011101000
:B
11011011011110110101100101111011
:C

B AND C
11010011001110110001000001101000
:Out

11110111001110110011010011101000
:B
11100100001011101010000010001100
:D

B AND D
11100100001010100010000010001000
:Out

11011011011110110101100101111011
:C
11100100001011101010000010001100
:D

C AND D
11000000001010100000000000001000
:Out

11010011001110110001000001101000
:B AND C
11100100001010100010000010001000
:B AND D

(B AND C) OR (B AND D)
11110111001110110011000011101000
:Out

11110111001110110011000011101000
:(B AND C) OR (B AND D)
11000000001010100000000000001000
:C AND D

((B AND C) OR (B AND D)) OR (C AND D)
11110111001110110011000011101000
:F

10001111000110111011110011011100
:K
10111010001010101101111010000010
:A lrot 5
11110111001110110011000011101000
:F

:(A lrot 5) + F
11011000101100110000111101101010
:Out

11011000101100110000111101101010
:(A lrot 5) + F
10011101000101000001101111101000
:E

:(A lrot 5) + F + E
10010011100111101000101011010010
:Out

10010011100111101000101011010010
:(A lrot 5) + F + E
10001111000110111011110011011100
:K

:(A lrot 5) + F + E + K
11011011101100101011110100000101110
:Out

11011011101100101011110100000101110
:(A lrot 5) + F + E + K
10110011011110100110010111111101
:Word 50

:(A lrot 5) + F + E + K + Word 50
11111001000100010000010011100010101 1
:temp

10010001000100000100111000101011
:truncated temp
11100100001011101010000010001100
:E = D
11011011011110110101100101111011
:D = C

00111101110011101100110100111010
:C = B Left Rotate 30
00010101110100010101011011110100
:B = A
10010001000100000100111000101011
:A = Temp

Word 51

00010101110100010101011011110100
:B
00111101110011101100110100111010
:C

B AND C
00010101110000000100010000110000
:Out

00010101110100010101011011110100
:B
11011011011110110101100101111011
:D

B AND D
00010001010100010101000001110000
:Out

00111101110011101100110100111010
:C
11011011011110110101100101111011
:D

C AND D
00011001010010100100100100111010
:Out

00010101110000000100010000110000
:B AND C
00010001010100010101000001110000
:B AND D

(B AND C) OR (B AND D)
00010101110100010101010001110000
:Out

00010101110100010101010001110000
:(B AND C) OR (B AND D)
00011001010010100100100100111010
:C AND D

((B AND C) OR (B AND D)) OR (C AND D)
00011101110110110101110101111010
:F

10001111000110111011110011011100
:K
00100010000010011100010101110010
:A lrot 5
00011101110110110101110101111010
:F

:(A lrot 5) + F
10011111111100101001000101110110 0
:Out

10011111111100101001000101110110 0
:(A lrot 5) + F
11100100001011101010000010001100
:E

:(A lrot 5) + F + E
10001001000001001111000011011110 00
:Out

10001001000001001111000011011110 00
:(A lrot 5) + F + E
10001111000110111011110011011100
:K

:(A lrot 5) + F + E + K
11010110011001011111000000001010100
:Out

11010110011001011111000000001010100
:(A lrot 5) + F + E + K
00000011011010001010001010101001
:Word 51

:(A lrot 5) + F + E + K + Word 51
11101011011010011000001000101111110 1
:temp

10110110100110000010001011111101
:truncated temp
11011011011110110101100101111011
:E = D
00111101110011101100110100111010
:D = C

00000101011101000101010110111101
:C = B Left Rotate 30
10010001000100000100111000101011
:B = A
10110110100110000010001011111101
:A = Temp

Word 52

10010001000100000100111000101011
:B
00000101011101000101010110111101
:C

B AND C
00000001000100000100010000101001
:Out

10010001000100000100111000101011
:B
00111101110011101100110100111010
:D

B AND D
00010001000000000100110000101010
:Out

00000101011101000101010110111101
:C
00111101110011101100110100111010
:D

C AND D
00000101010001000100010100111000
:Out

00000001000100000100010000101001
:B AND C
00010001000000000100110000101010
:B AND D

(B AND C) OR (B AND D)
00010001000100000100110000101011
:Out

00010001000100000100110000101011
:(B AND C) OR (B AND D)
00000101010001000100010100111000
:C AND D

((B AND C) OR (B AND D)) OR (C AND D)
00010101010101000100110100111011
:F

10001111000110111011110011011100
:K
11010011000001000101111110110110
:A lrot 5
00010101010101000100110100111011
:F

:(A lrot 5) + F
11110100001011000101011001111000 1
:Out

11110100001011000101011001111000 1
:(A lrot 5) + F
11011011011110110101100101111011
:E

:(A lrot 5) + F + E
10110000111101010000000110011011 00
:Out

10110000111101010000000110011011 00
:(A lrot 5) + F + E
10001111000110111011110011011100
:K

:(A lrot 5) + F + E + K
11101010010111011111100001101001000
:Out

11101010010111011111100001101001000
:(A lrot 5) + F + E + K
11110100101100111100011001001110
:Word 52

:(A lrot 5) + F + E + K + Word 52
10000100011110100011100010011001 0110
:temp

01000111101000111000100110010110
:truncated temp
00111101110011101100110100111010
:E = D
00000101011101000101010110111101
:D = C

11100100010001000001001110001010
:C = B Left Rotate 30
10110110100110000010001011111101
:B = A
01000111101000111000100110010110
:A = Temp

Word 53

10110110100110000010001011111101
:B
11100100010001000001001110001010
:C

B AND C
10100100000000000000001010001000
:Out

10110110100110000010001011111101
:B
00000101011101000101010110111101
:D

B AND D
00000100000100000000000010111101
:Out

11100100010001000001001110001010
:C
00000101011101000101010110111101
:D

C AND D
00000100010001000001000110001000
:Out

10100100000000000000001010001000
:B AND C
00000100000100000000000010111101
:B AND D

(B AND C) OR (B AND D)
10100100000100000000001010111101
:Out

10100100000100000000001010111101
:(B AND C) OR (B AND D)
00000100010001000001000110001000
:C AND D

((B AND C) OR (B AND D)) OR (C AND D)
10100100010101000001001110111101
:F

10001111000110111011110011011100
:K
11110100011100010011001011001000
:A lrot 5
10100100010101000001001110111101
:F

:(A lrot 5) + F
11001100011000101010001101000010 1
:Out

11001100011000101010001101000010 1
:(A lrot 5) + F
00111101110011101100110100111010
:E

:(A lrot 5) + F + E
11110101101001010000010011101111 11
:Out

11110101101001010000010011101111 11
:(A lrot 5) + F + E
10001111000110111011110011011100
:K

:(A lrot 5) + F + E + K
10001100101101011111101000010011011
:Out

10001100101101011111101000010011011
:(A lrot 5) + F + E + K
10011111111000110011101011001110
:Word 53

:(A lrot 5) + F + E + K + Word 53
11010000010110010011000010110110 1001
:temp

00000101100100110000101101101001
:truncated temp
00000101011101000101010110111101
:E = D
11100100010001000001001110001010
:D = C

01101101101001100000100010111111
:C = B Left Rotate 30
01000111101000111000100110010110
:B = A
00000101100100110000101101101001
:A = Temp

Word 54

01000111101000111000100110010110
:B
01101101101001100000100010111111
:C

B AND C
01000101101000100000100010010110
:Out

01000111101000111000100110010110
:B
11100100010001000001001110001010
:D

B AND D
01000100000000000000000110000010
:Out

01101101101001100000100010111111
:C
11100100010001000001001110001010
:D

C AND D
01100100000001000000000010001010
:Out

01000101101000100000100010010110
:B AND C
01000100000000000000000110000010
:B AND D

(B AND C) OR (B AND D)
01000101101000100000100110010110
:Out

01000101101000100000100110010110
:(B AND C) OR (B AND D)
01100100000001000000000010001010
:C AND D

((B AND C) OR (B AND D)) OR (C AND D)
01100101101001100000100110011110
:F

10001111000110111011110011011100
:K
10110010011000010110110100100000
:A lrot 5
01100101101001100000100110011110
:F

:(A lrot 5) + F
10001100000000011101110110101111110
:Out

10001100000000011101110110101111110
:(A lrot 5) + F
00000101011101000101010110111101
:E

:(A lrot 5) + F + E
11000111010111101111001100011111011
:Out

11000111010111101111001100011111011
:(A lrot 5) + F + E
10001111000110111011110011011100
:K

:(A lrot 5) + F + E + K
11110101100100101111000100101010111
:Out

11110101100100101111000100101010111
:(A lrot 5) + F + E + K
00100010010100011111000110101110
:Word 54

:(A lrot 5) + F + E + K + Word 54
11111100111011101001011110110000010 1
:temp

11001110111010010111101100000101
:truncated temp
11100100010001000001001110001010
:E = D
01101101101001100000100010111111
:D = C

10010001111010001110001001100101
:C = B Left Rotate 30
00000101100100110000101101101001
:B = A
11001110111010010111101100000101
:A = Temp

Word 55

00000101100100110000101101101001
:B
10010001111010001110001001100101
:C

B AND C
00000001100000000000001001100001
:Out

00000101100100110000101101101001
:B
01101101101001100000100010111111
:D

B AND D
00000101100000100000100000101001
:Out

10010001111010001110001001100101
:C
01101101101001100000100010111111
:D

C AND D
00000001101000000000000000100101
:Out

00000001100000000000001001100001
:B AND C
00000101100000100000100000101001
:B AND D

(B AND C) OR (B AND D)
00000101100000100000101001101001
:Out

00000101100000100000101001101001
:(B AND C) OR (B AND D)
00000001101000000000000000100101
:C AND D

((B AND C) OR (B AND D)) OR (C AND D)
00000101101000100000101001101101
:F

10001111000110111011110011011100
:K
11011101001011110110000010111001
:A lrot 5
00000101101000100000101001101101
:F

:(A lrot 5) + F
11110001011010001011010110010011 0
:Out

11110001011010001011010110010011 0
:(A lrot 5) + F
11100100010001000001001110001010
:E

:(A lrot 5) + F + E
10110001110001010101111110101100 00
:Out

10110001110001010101111110101100 00
:(A lrot 5) + F + E
10001111000110111011110011011100
:K

:(A lrot 5) + F + E + K
11101010110001100010011101110001100
:Out

11101010110001100010011101110001100
:(A lrot 5) + F + E + K
10001100100000111000010111101001
:Word 55

:(A lrot 5) + F + E + K + Word 55
11111110001010110100110000010111010 1
:temp

11100010101101001100000101110101
:truncated temp
01101101101001100000100010111111
:E = D
10010001111010001110001001100101
:D = C

01000001011001001100001011011010
:C = B Left Rotate 30
11001110111010010111101100000101
:B = A
11110001010110100110000010111010 1
:A = Temp

Word 56

11001110111010010111101100000101
:B
01000001011001001100001011011010
:C

B AND C
01000000011000000100001000000000
:Out

11001110111010010111101100000101
:B
10010001111010001110001001100101
:D

B AND D
10000000111010000110001000000101
:Out

01000001011001001100001011011010
:C
10010001111010001110001001100101
:D

C AND D
00000001011000001100001001000000
:Out

01000000011000000100001000000000
:B AND C
10000000111010000110001000000101
:B AND D

(B AND C) OR (B AND D)
11000000111010000110001000000101
:Out

11000000111010000110001000000101
:(B AND C) OR (B AND D)
00000001011000001100001001000000
:C AND D

((B AND C) OR (B AND D)) OR (C AND D)
11000001111010001110001001000101
:F

10001111000110111011110011011100
:K
01010110100110000010111010111100
:A lrot 5
11000001111010001110001001000101
:F

:(A lrot 5) + F
10001100010000001000100010000001
:Out

10001100010000001000100010000001
:(A lrot 5) + F
01101101101001100000100010111111
:E

:(A lrot 5) + F + E
11100001100010011100011001110000000
:Out

11100001100010011100011001110000000
:(A lrot 5) + F + E
10001111000110111011110011011100
:K

:(A lrot 5) + F + E + K
10000010101010000101101011010011100
:Out

10000010101010000101101011010011100
:(A lrot 5) + F + E + K
00011000100010000011011000010100
:Word 56

:(A lrot 5) + F + E + K + Word 56
11000010110111001011000011001011000 0
:temp

00101101110010110000110010110000
:truncated temp
10010001111010001110001001100101
:E = D
01000001011001001100001011011010
:D = C

01110011101110100101111011000001
:C = B Left Rotate 30
11100010101101001100000101110101
:B = A
00101101110010110000110010110000
:A = Temp

Word 57

11100010101101001100000101110101
:B
01110011101110100101111011000001
:C

B AND C
01100010101100000100000001000001
:Out

11100010101101001100000101110101
:B
01000001011001001100001011011010
:D

B AND D
01000000001001001100000001010000
:Out

01110011101110100101111011000001
:C
01000001011001001100001011011010
:D

C AND D
01000001001000000100001011000000
:Out

01100010101100000100000001000001
:B AND C
01000000001001001100000001010000
:B AND D

(B AND C) OR (B AND D)
01100010101101001100000001010001
:Out

01100010101101001100000001010001
:(B AND C) OR (B AND D)
01000001001000000100001011000000
:C AND D

((B AND C) OR (B AND D)) OR (C AND D)
01100011101101001100001011010001
:F

10001111000110111011110011011100
:K
10111001011000011001011000000101
:A lrot 5
01100011101101001100001011010001
:F

:(A lrot 5) + F
10001110100010110010110001101011O
:Out

10001110100010110010110001101011O
:(A lrot 5) + F
10010001111010001110001001100101
:E

:(A lrot 5) + F + E
11101011101111111100111011001110 11
:Out

11101011101111111100111011001110 11
:(A lrot 5) + F + E
10001111000110111011110011011100
:K

:(A lrot 5) + F + E + K
10000111110000110101111100000010111
:Out

10000111110000110101111100000010111
:(A lrot 5) + F + E + K
00000111111100000001001000111000
:Word 57

:(A lrot 5) + F + E + K + Word 57
11000100011000001011000010100100 1111
:temp

01000110000010110000101001001111
:truncated temp
01000001011001001100001011011010
:E = D
01110011101110100101111011000001
:D = C

01111000101011010011000001011101
:C = B Left Rotate 30
00101101110010110000110010110000
:B = A
01000110000010110000101001001111
:A = Temp

Word 58

00101101110010110000110010110000
:B
01111000101011010011000001011101
:C

B AND C
00101000100010010000000000010000
:Out

00101101110010110000110010110000
:B
01110011101110100101111011000001
:D

B AND D
00100001100010100000110010000000
:Out

01111000101011010011000001011101
:C
01110011101110100101111011000001
:D

C AND D
01110000101010000001000001000001
:Out

00101000100010010000000000010000
:B AND C
00100001100010100000110010000000
:B AND D

(B AND C) OR (B AND D)
00101001100010110000110010010000
:Out

00101001100010110000110010010000
:(B AND C) OR (B AND D)
01110000101010000001000001000001
:C AND D

((B AND C) OR (B AND D)) OR (C AND D)
01111001101010110001110011010001
:F

10001111000110111011110011011100
:K
11000001011000010100100111101000
:A lrot 5
01111001101010110001110011010001
:F

:(A lrot 5) + F
10011101100001100011001101011001
:Out

10011101100001100011001101011001
:(A lrot 5) + F
01000001011001001100001011011010
:E

:(A lrot 5) + F + E
11011111000111000100101001100100 11
:Out

11011111000111000100101001100100 11
:(A lrot 5) + F + E
10001111000110111011110011011100
:K

:(A lrot 5) + F + E + K
10000001011100011001110011001101111
:Out

10000001011100011001110011001101111
:(A lrot 5) + F + E + K
00000011011101101010101011101000
:Word 58

:(A lrot 5) + F + E + K + Word 58
11000000111100000011100100010101011 1
:temp

00001111000000111001000101010111
:truncated temp
01110011101110100101111011000001
:E = D
01111000101011010011000001011101
:D = C

00001011011100101100001100101100
:C = B Left Rotate 30
01000110000010110000101001001111
:B = A
00001111000000111001000101010111
:A = Temp

Word 59

01000110000010110000101001001111
:B
00001011011100101100001100101100
:C

B AND C
00000010000000100000001000001100
:Out

01000110000010110000101001001111
:B
01111000101011010011000001011101
:D

B AND D
01000000000001001000000000001001101
:Out

00001011011100101100001100101100
:C
01111000101011010011000001011101
:D

C AND D
00001000001000000000000000001100
:Out

00000010000000100000001000001100
:B AND C
01000000000001001000000000001001101
:B AND D

(B AND C) OR (B AND D)
01000010000010110000001001001101
:Out

01000010000010110000001001001101
:(B AND C) OR (B AND D)
00001000001000000000000000001100
:C AND D

((B AND C) OR (B AND D)) OR (C AND D)
01001010001010110000001001001101
:F

10001111000110111011110011011100
:K
11100000011100100010101011100001
:A lrot 5
01001010001010110000001001001101
:F

:(A lrot 5) + F
10010101010011101001010110100101110
:Out

10010101010011101001010110100101110
:(A lrot 5) + F
01110011101110100101111011000001
:E

:(A lrot 5) + F + E
11100111100101011110001011111101111
:Out

11100111100101011110001011111101111
:(A lrot 5) + F + E
10001111000110111011110011011100
:K

:(A lrot 5) + F + E + K
10000101101011100110100100011001011
:Out

10000101101011100110100100011001011
:(A lrot 5) + F + E + K
11011101111000000101101011001000
:Word 59

:(A lrot 5) + F + E + K + Word 59
11010000101101010011101000111001 0011
:temp

00001011010100111010001110010011
:truncated temp
01111000101011010011000001011101
:E = D
00001011011100101100001100101100
:D = C

11010001100000101100001010010011
:C = B Left Rotate 30
00001111000000111001000101010111
:B = A
00001011010100111010001110010011
:A = Temp

Word 60

00001111000000111001000101010111
:B
11010001100000101100001010010011
:C

B XOR C
11011110100000010101001111000100
:Out

11011110100000010101001111000100
:B XOR C
00001011011100101100001100101100
:D

(B XOR C) XOR D
11010101111100111001000011101000
:F

11001010011000101100000111010110
:K
01101010011101000111001001100001
:A lrot 5
11010101111100111001000011101000
:F

:(A lrot 5) + F
10100000001101000000000001101001001
:Out

10100000001101000000000001101001001
:(A lrot 5) + F
01111000101011010011000001011101
:E

:(A lrot 5) + F + E
11101110010001010100110011110100110
:Out

11101110010001010100110011110100110
:(A lrot 5) + F + E

11001010011000101100000111010110
:K

:(A lrot 5) + F + E + K
10010000011011101111111010101111100
:Out

10010000011011101111111010101111100
:(A lrot 5) + F + E + K
10010011010101111111101111010101
:Word 60

:(A lrot 5) + F + E + K + Word 60
11010001011011001111111000101010001
:temp

00010110110011111111000101010001
:truncated temp
00001011011100101100001100101100
:E = D
11010001100000101100001010010011
:D = C
11000011110000001110010001010101
:C = B Left Rotate 30
00001011010100111010001110010011
:B = A
00010110110011111111000101010001
:A = Temp

Word 61

00001011010100111010001110010011
:B
11000011110000001110010001010101
:C

B XOR C
11001000100100110100011111000110
:Out

11001000100100110100011111000110
:B XOR C
11010001100000101100001010010011
:D

(B XOR C) XOR D
00011001000100011000010101010101
:F

11001010011000101100000111010110
:K
11011001111111100010101000100010
:A lrot 5
00011001000100011000010101010101
:F

:(A lrot 5) + F
11111001100001111101011101110111
:Out

11111001100001111101011101110111
:(A lrot 5) + F
00001011011100101100001100101100
:E

:(A lrot 5) + F + E
11111111101000001001110010101000 11
:Out

11111111101000001001110010101000 11
:(A lrot 5) + F + E
11001010011000101100000111010110
:K

:(A lrot 5) + F + E + K
10011001000111001010011010001111001
:Out

10011001000111001010011010001111001
:(A lrot 5) + F + E + K
01100101001011100110011011111101
:Word 61

:(A lrot 5) + F + E + K + Word 61
11010010111000010011100110110110110
:temp

00101110000100111001101101110110
:truncated temp
11010001100000101100001010010011
:E = D
11000011110000001110010001010101
:D = C
11000010110101001110100011100100
:C = B Left Rotate 30
00010110110011111111000101010001
:B = A
00101110000100111001101101110110
:A = Temp

Word 62

00010110110011111111000101010001
:B
11000010110101001110100011100100
:C

B XOR C
11010100000110110001100110110101
:Out

11010100000110110001100110110101
:B XOR C
11000011110000001110010001010101
:D

(B XOR C) XOR D
00010111110110111111110111100000
:F

11001010011000101100000111010110
:K
11000010011100110110111011000101
:A lrot 5
00010111110110111111110111100000
:F

:(A lrot 5) + F
11101101001001111011011001010010 1
:Out

11101101001001111011011001010010 1
:(A lrot 5) + F
11010001100000101100001010010011
:E

:(A lrot 5) + F + E
10101010111101001000101111001110 00
:Out

10101010111101001000101111001110 00
:(A lrot 5) + F + E
11001010011000101100000111010110
:K

:(A lrot 5) + F + E + K
11101110110001101001111000100001110
:Out

11101110110001101001111000100001110
:(A lrot 5) + F + E + K
00111000100111111111010110111100
:Word 62

:(A lrot 5) + F + E + K + Word 62
11111010111011010100111001101100 1010
:temp

10101110110101001110011011001010
:truncated temp
11000011110000001110010001010101
:E = D
11000010110101001110100011100100
:D = C
01000101101100111111110001010100
:C = B Left Rotate 30
00101110000100111001101101110110
:B = A
10101110110101001110011011001010
:A = Temp

Word 63

00101110000100111001101101110110
:B
01000101101100111111110001010100
:C

B XOR C
01101011101000000110011100100010
:Out

01101011101000000110011100100010
:B XOR C
11000010110101001110100011100100
:D

(B XOR C) XOR D
10101001011101001000111111000110
:F

11001010011000101100000111010110
:K
11011010100111001101100101010101
:A lrot 5
10101001011101001000111111000110
:F

:(A lrot 5) + F
11000010000010001011010010001101 1
:Out

11000010000010001011010010001101 1
:(A lrot 5) + F
11000011110000001110010001010101
:E

:(A lrot 5) + F + E
10010001111101001001001101011100 00
:Out

10010001111101001001001101011100 00
:(A lrot 5) + F + E
11001010011000101100000111010110
:K

:(A lrot 5) + F + E + K
11100010010001101010000111101000110
:Out

11100010010001101010000111101000110
:(A lrot 5) + F + E + K
11010011111110010001111110000111
:Word 63

:(A lrot 5) + F + E + K + Word 63
11111110011000101110001011101 1001101
:temp

11100110001011100010111011001101
:truncated temp
11000010110101001110100011100100
:E = D
01000101101100111111110001010100
:D = C
10001011100001001110011011011101
:C = B Left Rotate 30
10101110110101001110011011001010
:B = A
11100110001011100010111011001101
:A = Temp

Word 64

10101110110101001110011011001010
:B

10001011100001001110011011011101
:C

B XOR C
00100101010100000000000000010111
:Out

00100101010100000000000000010111
:B XOR C
01000101101100111111110001010100
:D

(B XOR C) XOR D
01100000111000111111110001000011
:F

11001010011000101100000111010110
:K
11000101110001011101100110111100
:A lrot 5
01100000111000111111110001000011
:F

:(A lrot 5) + F
10010011010101001110101011111111
:Out

10010011010101001110101011111111
:(A lrot 5) + F
11000010110101001110100011100100
:E

:(A lrot 5) + F + E
11111010010111111010111111011100011
:Out

11111010010111111010111111011100011
:(A lrot 5) + F + E
11001010011000101100000111010110
:K

:(A lrot 5) + F + E + K
10010110011111100001100000010111001
:Out

10010110011111100001100000010111001
:(A lrot 5) + F + E + K
00100001010011001110100011000011
:Word 64

:(A lrot 5) + F + E + K + Word 64
11001101010100101110011010010111100
:temp

11010101001011100110100101111100
:truncated temp
01000101101100111111110001010100
:E = D
10001011100001001110011011011101
:D = C
10101011101101010011100110110010
:C = B Left Rotate 30
11100110001011100010111011001101
:B = A
11010101001011100110100101111100
:A = Temp

Word 65

11100110001011100010111011001101
:B
10101011101101010011100110110010
:C

B XOR C
01001101100110110001011101111111
:Out

01001101100110110001011101111111
:B XOR C
10001011100001001110011011011101
:D

(B XOR C) XOR D
11000110000111111111000110100010
:F

11001010011000101100000111010110
:K
10100101110011010010111110011010
:A lrot 5
11000110000111111111000110100010
:F

:(A lrot 5) + F
10110101111101101001000010011110 0
:Out

10110101111101101001000010011110 0
:(A lrot 5) + F
01000101101100111111110001010100
:E

:(A lrot 5) + F + E
11101100011010000100011101100100 00
:Out

11101100011010000100011101100100 00
:(A lrot 5) + F + E
11001010011000101100000111010110
:K

:(A lrot 5) + F + E + K
10001111100000000111101111101100110
:Out

10001111100000000111101111101100110
:(A lrot 5) + F + E + K
01000101001110010010010011000100
:Word 65

:(A lrot 5) + F + E + K + Word 65
11001100000100111101000001000010101 0
:temp

11000001001111010000010000101010
:truncated temp
10001011100001001110011011011101
:E = D
10101011101101010011100110110010
:D = C
01111001100010111000101110110011
:C = B Left Rotate 30
11010101001011100110100101111100
:B = A
11000001001111010000010000101010
:A = Temp

Word 66

11010101001011100110100101111100
:B
01111001100010111000101110110011
:C

B XOR C
10101100101001011110001011001111
:Out

10101100101001011110001011001111
:B XOR C
10101011101101010011100110110010
:D

(B XOR C) XOR D
00000111000100001101101101111101
:F

11001010011000101100000111010110
:K
00100111101000001000010101011000
:A lrot 5
00000111000100001101101101111101
:F

:(A lrot 5) + F
10010111010110001011000001101010 1
:Out

10010111010110001011000001101010 1
:(A lrot 5) + F
10001011100001001110011011011101
:E

:(A lrot 5) + F + E
11101110100011011001000111101100 10
:Out

11101110100011011001000111101100 10
:(A lrot 5) + F + E
11001010011000101100000111010110
:K

:(A lrot 5) + F + E + K
10010000100100110010000100110001000
:Out

10010000100100110010000100110001000
:(A lrot 5) + F + E + K
00101110100011000010110110111001
:Word 66

:(A lrot 5) + F + E + K + Word 66
11001011001100100101001101110100000 1
:temp

10110011001001010011011101000001
:truncated temp
10101011101101010011100110110010
:E = D
01111001100010111000101110110011
:D = C
00110101010010111001101001011111
:C = B Left Rotate 30
11000001001111010000010000101010
:B = A
10110011001001010011011101000001
:A = Temp

Word 67

11000001001111010000010000101010
:B
00110101010010111001101001011111
:C

B XOR C
11110100011101101001111001110101
:Out

11110100011101101001111001110101
:B XOR C
01111001100010111000101110110011
:D

(B XOR C) XOR D
10001101111111010001010111000110
:F

11001010011000101100000111010110
:K
01100100101001101110100000110110
:A lrot 5
10001101111111010001010111000110
:F

:(A lrot 5) + F
11111001010100011111111010111111100
:Out

11111001010100011111111010111111100
:(A lrot 5) + F
10101011101101010011100110110010
:E

:(A lrot 5) + F + E

10100111100101100100110111110101110
:Out

10100111100101100100110111110101110
:(A lrot 5) + F + E
11001010011000101100000111010110
:K

:(A lrot 5) + F + E + K
11101101000101110111111100110000100
:Out

11101101000101110111111100110000100
:(A lrot 5) + F + E + K
11000000010011100101010011011000
:Word 67

:(A lrot 5) + F + E + K + Word 67
10000010100100000101001001110010111100
:temp

00101001000010100100111001011100
:truncated temp
01111001100010111000101110110011
:E = D
00110101010010111001101001011111
:D = C
10110000010011110100000100001010
:C = B Left Rotate 30
10110011001001010011011101000001
:B = A
00101001000010100100111001011100
:A = Temp

Word 68

10110011001001010011011101000001
:B
10110000010011110100000100001010
:C

B XOR C
00000011011010100111011001001011
:Out

00000011011010100111011001001011
:B XOR C
00110101010010111001101001011111
:D

(B XOR C) XOR D
00110110001000011110110000010100
:F

11001010011000101100000111010110
:K
00100001010010011100101110000101
:A lrot 5
00110110001000011110110000010100
:F

:(A lrot 5) + F
10101011101101011101101111001 1001
:Out

10101011101101011101101111001 1001
:(A lrot 5) + F
01111001100010111000101110110011
:E

:(A lrot 5) + F + E
11110100001111011101000011010011 00
:Out

11110100001111011101000011010011 00
:(A lrot 5) + F + E
11001010011000101100000111010110
:K

:(A lrot 5) + F + E + K
10010011011010110100000010100100010
:Out

10010011011010110100000010100100010
:(A lrot 5) + F + E + K
00000001000110011101000111100010
:Word 68

:(A lrot 5) + F + E + K + Word 68
11001001110001110011111010111000001 00
:temp

10011100011100111101011100000100
:truncated temp
00110101010010111001101001011111
:E = D
10110000010011110100000100001010
:D = C

01101100110010010100110111010000
:C = B Left Rotate 30
00101001000010100100111001011100
:B = A
10011100011100111101011100000100
:A = Temp

Word 69

00101001000010100100111001011100
:B
01101100110010010100110111010000
:C

B XOR C
01000101110000110000001110001100
:Out

01000101110000110000001110001100
:B XOR C
10110000010011110100000100001010
:D

(B XOR C) XOR D
11110101100011000100001010000110
:F

11001010011000101100000111010110
:K
10001110011111010111000010010011
:A lrot 5
11110101100011000100001010000110
:F

:(A lrot 5) + F
11000010000000111001000110001100 1
:Out

11000010000000111001000110001100 1
:(A lrot 5) + F
00110101010010111001101001011111
:E

:(A lrot 5) + F + E
11101110010101001010111101011110 00
:Out

11101110010101001010111101011110 00
:(A lrot 5) + F + E

11001010011000101100000111010110
:K

:(A lrot 5) + F + E + K
10010000011101101010111111101001110
:Out

10010000011101101010111111101001110
:(A lrot 5) + F + E + K
10110001100001011110100011000110
:Word 69

:(A lrot 5) + F + E + K + Word 69
11010011010100111011011010000010100
:temp

00110101001110110110100000010100
:truncated temp
10110000010011110100000100001010
:E = D
01101100110010010100110111010000
:D = C
00001010010000101001001110010111
:C = B Left Rotate 30
10011100011100111101011100000100
:B = A
00110101001110110110100000010100
:A = Temp

Word 70

10011100011100111101011100000100
:B
00001010010000101001001110010111
:C

B XOR C
10010110001100010100010010010011
:Out

10010110001100010100010010010011
:B XOR C
01101100110010010100110111010000
:D

(B XOR C) XOR D
11111010111110000000100101000011
:F

11001010011000101100000111010110
:K
10100111011011010000001010000110
:A lrot 5
11111010111110000000100101000011
:F

:(A lrot 5) + F
11010001001100101000010111100 1001
:Out

11010001001100101000010111100 1001
:(A lrot 5) + F
10110000010011110100000100001010
:E

:(A lrot 5) + F + E
10010100101011010001001100110 10011
:Out

10010100101011010001001100110 10011
:(A lrot 5) + F + E
11001010011000101100000111010110
:K

:(A lrot 5) + F + E + K
11100011101000101110000111010101001
:Out

11100011101000101110000111010101001
:(A lrot 5) + F + E + K
10000100000100001100110110111101
:Word 70

:(A lrot 5) + F + E + K + Word 70
11111010000100100111110111000 1100110
:temp

10100001001001111101110001100110
:truncated temp
01101100110010010100110111010000
:E = D
00001010010000101001001110010111
:D = C
00100111000111001111010111000001
:C = B Left Rotate 30
00110101001110110110100000010100
:B = A
10100001001001111101110001100110
:A = Temp

Word 71

00110101001110110110100000010100
:B
00100111000111001111010111000001
:C

B XOR C
00010010001001111001110111010101
:Out

00010010001001111001110111010101
:B XOR C
00001010010000101001001110010111
:D

(B XOR C) XOR D
00011000011001010000111001000010
:F

11001010011000101100000111010110
:K
00100100111110111000110011010100
:A lrot 5
00011000011001010000111001000010
:F

:(A lrot 5) + F
10011110101100000100110110001011 0
:Out

10011110101100000100110110001011 0
:(A lrot 5) + F
01101100110010010100110111010000
:E

:(A lrot 5) + F + E
11101010100010100111101000111001 10
:Out

11101010100010100111101000111001 10
:(A lrot 5) + F + E
11001010011000101100000111010110
:K

:(A lrot 5) + F + E + K
10001110100100011001010101010111100
:Out

10001110100100011001010101010111100
:(A lrot 5) + F + E + K
10110011001001101011001101101000
:Word 71

:(A lrot 5) + F + E + K + Word 71
11010010011110110011010111000100100
:temp

00100111101100110101111000100100
:truncated temp
00001010010000101001001110010111
:E = D
00100111000111001111010111000001
:D = C
00001101010011101101101000000101
:C = B Left Rotate 30
10100001001001111101110001100110
:B = A
00100111101100110101111000100100
:A = Temp

Word 72

10100001001001111101110001100110
:B
00001101010011101101101000000101
:C

B XOR C
10101100011010010000011001100011
:Out

10101100011010010000011001100011
:B XOR C
00100111000111001111010111000001
:D

(B XOR C) XOR D
10001011011101011111001110100010
:F

11001010011000101100000111010110
:K
11110110011010111100010010000100
:A lrot 5
10001011011101011111001110100010
:F

:(A lrot 5) + F
11000000111100001101110000010011 0
:Out

11000000111100001101110000010011 0
:(A lrot 5) + F
00001010010000101001001110010111
:E

:(A lrot 5) + F + E
11100011000010010001001011101111 01
:Out

11100011000010010001001011101111 01
:(A lrot 5) + F + E
11001010011000101100000111010110
:K

:(A lrot 5) + F + E + K
10001010110100001110000110110010011
:Out

10001010110100001110000110110010011
:(A lrot 5) + F + E + K
00010110011011110011100111110011
:Word 72

:(A lrot 5) + F + E + K + Word 72
11000110110011110110010001111000011 0
:temp

01101100111101100100011110000110
:truncated temp
00100111000111001111010111000001
:E = D
00001101010011101101101000000101
:D = C
10101000010010011111011100011001
:C = B Left Rotate 30
00100111101100110101111000100100
:B = A
01101100111101100100011110000110
:A = Temp

Word 73

00100111101100110101111000100100
:B

10101000010010011111011100011001
:C

B XOR C
10001111111110101010100100111101
:Out

10001111111110101010100100111101
:B XOR C
00001101010011101101101000000101
:D

(B XOR C) XOR D
10000010101101000111001100111000
:F

11001010011000101100000111010110
:K
10011110110010001111000011001101
:A lrot 5
10000010101101000111001100111000
:F

:(A lrot 5) + F
10010000101111101011001000000101
:Out

10010000101111101011001000000101
:(A lrot 5) + F
00100111000111001111010111000001
:E

:(A lrot 5) + F + E
11010010001001101001011001110001 10
:Out

11010010001001101001011001110001 10
:(A lrot 5) + F + E
11001010011000101100000111010110
:K

:(A lrot 5) + F + E + K
10000010010111111010001101110011100
:Out

10000010010111111010001101110011100
:(A lrot 5) + F + E + K
00110110011100110100001100010010
:Word 73

:(A lrot 5) + F + E + K + Word 73
11000100100101110000010111101010111 0
:temp

01001001011100000101111010101110
:truncated temp
00001101010011101101101000000101
:E = D
10101000010010011111011100011001
:D = C
00001001111011001101011110001001
:C = B Left Rotate 30
01101100111101100100011110000110
:B = A
01001001011100000101111010101110
:A = Temp

Word 74

01101100111101100100011110000110
:B
00001001111011001101011110001001
:C

B XOR C
01100101000110101001000000001111
:Out

01100101000110101001000000001111
:B XOR C
10101000010010011111011100011001
:D

(B XOR C) XOR D
11001101010100110110011100010110
:F

11001010011000101100000111010110
:K
00101110000010111101010111001001
:A lrot 5
11001101010100110110011100010110
:F

:(A lrot 5) + F
11111101101011111001111001101111 1
:Out

11111101101011111001111001101111
:(A lrot 5) + F
00001101010011101101101000000101
:E

:(A lrot 5) + F + E
10000010001010111000010111011100100
:Out

10000010001010111000010111011100100
:(A lrot 5) + F + E
11001010011000101100000111010110
:K

:(A lrot 5) + F + E + K
11011010011000100001101100010111010
:Out

11011010011000100001101100010111010
:(A lrot 5) + F + E + K
00011011000101111001111111011000
:Word 74

:(A lrot 5) + F + E + K + Word 74
11101110111000101000011110001001001 0
:temp

11101110001010000111100010010010
:truncated temp
10101000010010011111011100011001
:E = D
00001001111011001101011110001001
:D = C
10011011001111011001000111100001
:C = B Left Rotate 30
01001001011100000101111010101110
:B = A
11101110001010000111100010010010
:A = Temp

Word 75

01001001011100000101111010101110
:B
10011011001111011001000111100001
:C

B XOR C
11010010010011011100111101001111
:Out

11010010010011011100111101001111
:B XOR C
00001001111011001101011110001001
:D

(B XOR C) XOR D
11011011101000010001100011000110
:F

11001010011000101100000111010110
:K
11000101000011110001001001011101
:A lrot 5
11011011101000010001100011000110
:F

:(A lrot 5) + F
11010000010110000000101011001000 11
:Out

11010000010110000000101011001000 11
:(A lrot 5) + F
10101000010010011111011100011001
:E

:(A lrot 5) + F + E
10010010001111101000100010001111 00
:Out

10010010001111101000100010001111 00
:(A lrot 5) + F + E
11001010011000101100000111010110
:K

:(A lrot 5) + F + E + K
11100010011010111001110010000010010
:Out

11100010011010111001110010000010010
:(A lrot 5) + F + E + K
11011101110111101010001000111100
:Word 75

:(A lrot 5) + F + E + K + Word 75
11111111000100111011100001100100 1110
:temp

11110001001110111000011001001110
:truncated temp
00001001111011001101011110001001
:E = D
10011011001111011001000111100001
:D = C
10010010010111000001011110101011
:C = B Left Rotate 30
11101110001010000111100010010010
:B = A
11110001001110111000011001001110
:A = Temp

Word 76

11101110001010000111100010010010
:B
10010010010111000001011110101011
:C

B XOR C
01111100011101000110111100111001
:Out

01111100011101000110111100111001
:B XOR C
10011011001111011001000111100001
:D

(B XOR C) XOR D
11100111010010011111111011011000
:F

11001010011000101100000111010110
:K
00100111011100001100100111011110
:A lrot 5
11100111010010011111111011011000
:F

:(A lrot 5) + F
10000111010111010110010010110110
:Out

10000111010111010110010010110110
:(A lrot 5) + F
00001001111011001101011110001001
:E

:(A lrot 5) + F + E

11000110001010011110100000000111111
:Out

11000110001010011110100000000111111
:(A lrot 5) + F + E
11001010011000101100000111010110
:K

:(A lrot 5) + F + E + K
11111100011000010100110001000010101
:Out

11111100011000010100110001000010101
:(A lrot 5) + F + E + K
00111001010001010011100100110011
:Word 76

:(A lrot 5) + F + E + K + Word 76
10000001110001001111100110110100100 0
:temp

00011100010011111001101101001000
:truncated temp
10011011001111011001000111100001
:E = D
10010010010111000001011110101011
:D = C
10111011100010100001111000100100
:C = B Left Rotate 30
11110001001110111000011001001110
:B = A
00011100010011111001101101001000
:A = Temp

Word 77

11110001001110111000011001001110
:B
10111011100010100001111000100100
:C

B XOR C
01001010101100011001100001101010
:Out

01001010101100011001100001101010
:B XOR C
10010010010111000001011110101011
:D

(B XOR C) XOR D
11011000111011011000111111000001
:F

11001010011000101100000111010110
:K
10001001111100110110100100000011
:A lrot 5
11011000111011011000111111000001
:F

:(A lrot 5) + F
10110001011100000111110001100010 0
:Out

10110001011100000111110001100010 0
:(A lrot 5) + F
10011011001111011001000111100001
:E

:(A lrot 5) + F + E
11111111100001111010001010100101
:Out

11111111100001111010001010100101
:(A lrot 5) + F + E
11001010011000101100000111010110
:K

:(A lrot 5) + F + E + K
10011001000100000010100110001111011
:Out

10011001000100000010100110001111011
:(A lrot 5) + F + E + K
00111000100010100001110011001000
:Word 77

:(A lrot 5) + F + E + K + Word 77
11010000000100001011011010010100 0011
:temp

00000001000010110110100101000011
:truncated temp
10010010010111000001011110101011
:E = D
10111011100010100001111000100100
:D = C

10111100010011101110000110010011
:C = B Left Rotate 30
00011100010011111001101101001000
:B = A
00000001000010110110100101000011
:A = Temp

Word 78

00011100010011111001101101001000
:B
10111100010011101110000110010011
:C

B XOR C
10100000000000010111101011011011
:Out

10100000000000010111101011011011
:B XOR C
10111011100010100001111000100100
:D

(B XOR C) XOR D
00011011100010110110010011111111
:F

11001010011000101100000111010110
:K
00100001011011010010100001100000
:A lrot 5
00011011100010110110010011111111
:F

:(A lrot 5) + F
10011110011111000100011010101111
:Out

10011110011111000100011010101111
:(A lrot 5) + F
10010010010111000001011110101011
:E

:(A lrot 5) + F + E
11110011110101010010100101000010 10
:Out

11110011110101010010100101000010 10
:(A lrot 5) + F + E

11001010011000101100000111010110
:K

:(A lrot 5) + F + E + K
10010011001101101110110011011100000
:Out

10010011001101101110110011011100000
:(A lrot 5) + F + E + K
10000000001110101110010111111100
:Word 78

:(A lrot 5) + F + E + K + Word 78
11010001100111110010010011001101 1100
:temp

00011001111100100100110011011100
:truncated temp
10111011100010100001111000100100
:E = D
10111100010011101110000110010011
:D = C
00000111000100111110011011010010
:C = B Left Rotate 30
00000001000010110110100101000011
:B = A
00011001111100100100110011011100
:A = Temp

Word 79

00000001000010110110100101000011
:B
00000111000100111110011011010010
:C

B XOR C
00000110000110001000111110010001
:Out

00000110000110001000111110010001
:B XOR C
10111100010011101110000110010011
:D

(B XOR C) XOR D
10111010010101100110111000000010
:F

11001010011000101100000111010110
:K
00111110010010011001101110000011
:A lrot 5
10111010010101100110111000000010
:F

:(A lrot 5) + F
11111100010100000000100110000101
:Out

11111100010100000000100110000101
:(A lrot 5) + F
10111011100010100001111000100100
:E

:(A lrot 5) + F + E
10101101000010101000100111110101001
:Out

10101101000010101000100111110101001
:(A lrot 5) + F + E
11001010011000101100000111010110
:K

:(A lrot 5) + F + E + K
11101111110100011001110100101111111
:Out

11101111110100011001110100101111111
:(A lrot 5) + F + E + K
00111001010001110110001000110000
:Word 79

:(A lrot 5) + F + E + K + Word 79
11111011011111010100010010101110101111
:temp

10110111110101000100101110101111
:truncated temp
10111100010011101110000110010011
:E = D
00000111000100111110011011010010
:D = C
11000000010000101101101001010000
:C = B Left Rotate 30
00011001111100100100110011011100
:B = A
10110111110101000100101110101111
:A = Temp

01100111010001010010001100000001
:h0
10110111110101000100101110101111
:A

:h0 + A
10001111100011001011011101011000 0
:h0

11101111110011011010101110001001
:h1
00011001111100100100110011011100
:B

:h1 + B
10000100110111111111100001100101
:h1

10011000101110101101110011111110
:h2
11000000010000101101101001010000
:C

:h2 + C
10101100011111101101101110100111 0
:h2

00010000001100100101010001110110
:h3
00000111000100111110011011010010
:D

:h3 + D
10001011101000110001110110100100 0
:h3

11000011110100101110000111110000
:h4
10111100010011101110000110010011
:E

:h4 + E
11000000000100001110000111000001 1
:h4

00011111000110010110111010110000
:h0 truncated
00001001101111111111100001100101

:h1 truncated
01011000111111011011011101001110
:h2 truncated
00010111010001100011101101001000
:h3 truncated
10000000001000011100001110000011
:h4 truncated
1f196eb0
:h0 in hex
9bff865
:h1 in hex
58fdb74e
:h2 in hex
17463b48
:h3 in hex
8021c383
:h4 in hex
1f196eb009bff86558fdb74e17463b488021c383
:digest
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