

BN4s

aWk,

\*@Q=

128 | 64 | 32 | 16 | 8 | 4 | 2 | 1

HW #1

"BYU cs is cool!"

h a) ~~20 55 59 42~~ 42~~32 85 89 66~~ 66~~00100001 01010101 01011001 10100001~~b) ~~20~~ ~~32~~ ~~85~~ ~~89~~ ~~66~~ ~~00100000~~ hex

c) int \*a = (int \*)p; printf("%x", \*a);

output: ~~20~~ 20555942

d) int \*a = (int \*)p; printf("%x", \*(a+1));

output: ~~69~~ 69207363

e) char \*b = (char \*)p; printf("%c", \*b);

output: B

f) char \*b = (char \*)p; printf("%c", \*(b+1));

output: Y

g) char \*b = (char \*)p; printf("%c", \*(b-7));

output: i

h) char \*b = (char \*)p; printf("%s", b);

output: BYU cs is cool!

i) char \*b = (char \*)p; printf("%s", (b+4));

output: cs is cool!

j) long \*b = (long \*)p; printf("%lx", \*(b+1));

output: ~~20~~ 00216c6f6f632073

2

bits	location
31 30 29 28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 0	a[2]
46 45 44 43 42 41 40 39 38 37 36 35 34 33 32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 0	a[1]
75 74 73 72 71 70 69 68 67 66 65 64 63 62 61 60 59 58 57 56 55 54 53 52 51 50 49 48 47 46 45 44 43 42 41 40 39 38 37 36 35 34 33 32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 0	a[0]

input: BN4s aWk, \*@Q=

3

Rise + Show + BYU! \* backwards!

52697365 5368647574 425955

26

26

21

input: "65736952  
+Show+BYU!"65736952  
+Show+B  
215559

00	21	6e	6f	0x77adf3e
6f	63	20	73	"a
69	20	73	63	"6
20	55	59	42	"2

4.	bits (hex: char)				address
	00: Null	00: Null	00: Null	29: )	20
	2a: *	5e: ^	5f: -	5e: ^	16
	2a: *	28: (	20: sp	21: !	12
	21: !	34: 4	32: 2	32: 2	8
	20: sp	73: s	63: c	20: sp	4
	33: 3	3c: <	20: sp	49: I	0

line #1 line #2 line #3 line #4  
 %lx %x %x %s  
 long int int char  
 hex hex hex string

INPUT: 20736320333c2049  
 21343232  
 2a282021  
 ^ ^ ^