

1. Magic 8 Ball

char magic8Ball [8][8][8];

If the application were to output the value of magic8ball[3][4] – what would it be? i.e. what would be returned from the statement printf(“%s”, magic8ball[3][4]);

magic8Ball elements	Address
magic8Ball[0][0]	0x7ffffffe000
magic8Ball[0][1]	0x7ffffffe008
magic8Ball[0][2]	0x7ffffffe010
magic8Ball[0][3]	0x7ffffffe018
magic8Ball[0][4]	0x7ffffffe020
...	...
magic8Ball[2][6]	0x7ffffffe0b0
magic8Ball[2][7]	0x7ffffffe0b8
magic8Ball[3][0]	0x7ffffffe0c0
magic8Ball[3][1]	0x7ffffffe0c8
magic8Ball[3][2]	0x7ffffffe0d0
magic8Ball[3][3]	0x7ffffffe0d8
<u>magic8Ball[3][4]</u>	<u>0x7ffffffe0e0</u>

0x7ffffffe0e0:	0x57	0x72	0x6f	0x6e	0x67	0x0	0x00	0x00
magic8Ball[3][4]	‘W’	‘r’	‘o’	‘n’	‘g’	NULL	NULL	NULL

Answer: The statement printf(“%s”, magic8ball[3][4]); will return **“Wrong”**.