

1) The problem is with interpreter path.
When we try to run the code we get "error code: 127" which means the file does not exist. When we try to see the r-path using `patchelf --print-rpath $file`, we get the output which happens to be an empty string. \therefore No path is there for the interpreter.

b) This file is ELF 64

Magic \rightarrow 7f 45 4c 46 02 01 01
 \downarrow \downarrow \downarrow \downarrow
start ~~E~~ L F

no. of program header = 15

Size of program header = 56 bytes

" " section " = 64 bytes

no. " " " = 37

Q4) Initial stack →

	→ %ebp
	→ %ebp + 0x4
	→ %ebp + 0x8
	→ %ebp + 0xc

When `sub esp, 0x10` is done.

	← %ebp - 0x10
	→ %ebp - 0xc
0xc	→ %ebp - 0x8
0x15	→ %ebp - 0x4
	→ %ebp

then 0x15 will be in 0x4
0xc will be in 0x8

then similarly
0x15 of 0x8 is 0xbb

	← %ebp - 0x10
	→ %ebp - 0xc
0xbb	→ %ebp - 0x8
0x16	→ %ebp - 0x4
	→ %ebp

then the loop will run which results to adding 240 to 0x15 which results to the value `ebp - 0x4 = 0x105`