① float f = -304.25
printf("%u", f)
printf("%d", f)
What do the two print statements output.

② float a = 44.75
float b = -231.25
Convert to IEEE fp & show how "a+b" would be done.

③ Assign values to x and y s.t.
i) (x && y) is TRUE and (x & y) is false
ii) (x || y) is false and (x | y) is true.

④ x is an int and we want to check if the 2 MSBs are equal to 1:

```
if (.. A ..)   // TRUE if both MSBs are 1
else (.. B ..) // TRUE if at least one of the two MSBs is 1.
```

What should we put at A and B

⑤ We have an unsigned array a. {1, 1, 2, 3}
unsigned int *a; ↗ a points to
How many times will the following loop run:

```
while ((*a++) & 0x1) {
        loop
}
```

⑥

```
movq $0x8, %rdx
movq $0x20, %rbx
leaq 2(%rbx, %rbx, 8), %rbx
jmp L1
L2:
subq %rdx, %rbx
L1:
cmpq $0, %rbx
jns L2
movq $0, %rax
ret
```

Give the C equivalent of the above code.