Exercises 5.1

Learn C With Babbo

1. Give the output of the following blocks of code:

```
(a) if (3 > -2) {
        printf('0\n');
} else {
        printf('1\n');
}
```

```
(b) int a = 18;
   if (a < 10) {
        printf("0\n");
   } else if (a < 20) {
        printf("1\n");
   } else if (a < 30) {
        printf("2\n");
   } else {
        printf("3\n");
}</pre>
```

```
(c) int b = -7
if (b < 0) {
    printf("0\n");
} else if (b == -7) {
    printf("1\n");
}</pre>
```

```
(d) int a = 90;
   if (a > 200) {
       printf("0\n");
   } else if (a > 90) {
       printf("1\n");
   } else {
       printf("2\n");
   }
```

```
(e) int a = 50;
   if (a - 20 > 20) {
       printf("0\n");
   }
   if (a % 51 >= 50) {
       printf("1\n");
   }
   if (a * 9 != 500) {
       printf("2\n");
   }
```

- 2. (a) Write a function called is_even that takes an int as an argument and returns 0 if that int is odd, and 1 if that int is even.
 - (b) Given your function definition above, give the output of the following code block:

```
int a = 4;
int b = 9;
if (is_even(a + b)) {
    printf("Even\n");
} else {
    printf("Odd\n");
}
```

3. What is wrong with the following code block?

```
int a = 9;
if (a * 3 = 27) {
    printf("0\n");
} else {
    printf("1\n");
}
```