Exercises 4.2

Learn C With Babbo

1. Give the output of the following statements

```
(a) int a = 1.5;
printf("%d\n", a);
(b) float a = 3 + 9;
printf("%.0f\n", a);
int a = 3.14;
float b = a * 2;
printf("%.2f\n", b);
```

2. For each of the following items, say what the type of the result of the expression is.

```
(a) 3 * 7
(b) 2 / 7.4
(c) 2L + 3.7f
(d) 3 % 7L
(e) 2.5f + 3.5
```

```
(f) 2.5 + 3.5
```

3. Suppose I have the following function defined:

```
double combine(int num1, double num2, int num3) {
    return num1 + num2 + num3;
}
```

What is the output of the following statement?

```
printf("%.2f\n", combine(6.4, 8, -1.5));
```

4. Explain why implicit conversion of integral values to floating point values is generally harmless, but the implicit conversion of floating point values to integral values is often undesirable.