

CS 120 Fall 2019 Study Quiz #5

1. What output is produced by the following calls to `printf`? Write only one character per square. Be sure to pay attention to the vertical bars. There are no spaces in the format strings.

a) `printf("|%5.4i,%-5i,%3i|", 123, 456, 12345);`
b) `printf("|%.2f,%9.5f,%g|", 83.1670, 83.1670, 83.1670);`

2. Suppose that we call `scanf` as follows:

```
scanf("%d%f%d", &i, &x, &j);
```

If the user enters:

```
10.345 20 30
```

and then presses the enter key, what will the values of `i`, `x`, and `j` be after the call? (Assume that `i` and `j` are `int` variables and that `x` is a `float` variable. If any value is undefined, write Undefined.)

3. What does the code on the right print out? (3 points)

```
int a;  
int b = 1;  
for (a = 1; a < b + 4; b++, a = b * 2)  
    printf("%i\n", a);
```

4. What does the code on the right print out? (3 points)

```
int a = 5;  
int b = 0;  
while (a > 3)  
{  
    b += a;  
    --a;  
}  
printf("%i, %i\n", a, b);
```

5. What does the code on the right print out? (3 points)

```
int a;  
int b;  
for (a = 7, b = 2; b < a; a++)  
    b += a - 2;  
  
printf("%d, %d\n", b, a);
```