CS31 Worksheet: Week 2: C basics

Q1. There is no boolean type in C, instead **integer expressions** used in conditional statements are interpreted as true or false according to this rule:

0: is false non-zero value: is true

int x , y;

x = 4;

y = -10

Expression	Value	Evaluates to: (T/F)
if (x < y)		
if (y)		
if (0)		





```
For Loops
Q2. What does this for loop print?
int arr[5]; // an array of 5 integers
float rates[40]; // an array of 40 floats
for (i=0; i < 5; i++) {
    arr[i] = i;
    rates[i] = arr[i]*2;
}</pre>
```

OUTPUT HERE:

Q3. Consider the following array layout in memory for an integer array "january_temps" that has 31 buckets.

int january_temps[31];



What happens if we try to print january_temps[35]?

- A) Error message because it is out of bounds of the array
- B) It's 0 because it is out of bounds of the array
- C) It's a garbage value because C doesn't care, it's your problem as a programmer to not ask for random offsets...
- D) Something else, list here: _____

Q4. Given what we know about arrays, how can we add a temperature reading to the second element in the array using the same library functions (read_int and read_float) as in Lab 1 from a text file?

- A) read_float (january_temps);
- B) read_float(&january_temps[1]);
- C) read_float(&january_temps[2]);