

Quiz 6: While loops

Name: _____

CSCI 110 Section 1

Monday, August 29, 2016

- 1) Fill in the blanks to print "can't touch this" 26 times. [30 points]

```
int i = _____;
while ( _____ ) {
    System.out.println("can't touch this");
    _____;
}
```

- 2) What's the value of y after this code runs? [20 points]

```
int x, y;
x = 5;
y = 100;
while (x > 2) {
    y = y - 2;
    x -= 1;
    System.out.println("break it down");
}
```

- 3) Does the following while loop terminate? Why? (for this question assume floats don't overflow) [20 points]

```
float x, y, z;
x = 50;
y = 40;
z = 30;
while (x > y || y > z) {
    x += 2;
    System.out.println("hammertime");
    y += 1;
}
```

- 4) Use a while loop to calculate the product of the integers between 2 and 20 (inclusive).
[30 points]
- 5) Use while loops to print a multiplication table (1 through 12). Remember that `System.out.println` prints a newline after the String you give it, while `System.out.print` does not. Tip: use the tab character `\t` like in `System.out.println("1\t2\t3")` to make numbers line up in columns. [extra credit, 40 points]