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**9.5 Problem Set**

**Exercise 4.7**

1. Describe in English what the following code segments do:
   1. The code segment loops through all integers, between 1 and the Java Integer Limit, and prints out the even numbers (All those divisible evenly by 2).
   2. This segment, generates / “picks” a random number between 1 and 10, and loops infinitely, until the user guesses the correct number.
2. Write code segments that use loops to perform the following tasks:
   1. int increment = 1

for (int i = 1; increment < 11 && i%2 != 0; i++) {

System.out.println(“Square: ” + i \* i + “Cube: ” + i\*i\*i)

}

* 1. // I know that this method in unnecessarily complicated, but I wasn’t sure how else to “build” a string

import java.util.Arrays;

int[] firstTenEven = new int[10];

int x = 0;

for (int i = 20; i > 0 && i%2 == 0; i--) {  
 firstTenEven[x] = i;

x++;  
}

string firstTenEvenStr = Arrays.toString(firstTenEven);

System.out.println(firstTenEvenStr);

**Section 2.2**

1. 6) My answer is “C”, as both I and II work, and III is wrong.
2. 7) My answer is “E”, because I plugged in values for each case (2, -2, and 1) and all were true.
3. 8) I chose D, by process of elimination, however I was not able to find a scenario where -2 is outputted.
4. 9) Again, I chose D, because unlike the other options, D fits every requirement and will actually work.