A while loop with a special goal:

```java
int num = 300000;
int splitCount = 0;
while (num > 1){
    num = num/2;
    splitCount++;
}
System.out.println("split count:" + splitCount);
```

1. Complete the while loop below, which should print a column of numbers from 1000 down to 100 in steps of 2: 1000-998-996....-102-100

```java
int n =         ;
while (               ){
    System.out.println (          );
    n =          ;
}
```

2. Write a while loop that prints
   blah (1)
   blahblah (2)
   blahblahblahblah (4)
   blahblahblahblahblahblahblahblah (8)

   doubling in length on each line, until a line longer than 150 characters has been printed.

3. Suppose s is a String. Write a while loop that prints s until a b or B is reached (or until the end of the String is reached).

4. Suppose s is a String. Write a while loop that counts the number of capital A’s or capital B’s in s.
5. Write a method called triString, which is passed a String parameter, and then prints the word in triangle form:

If dogs is passed to triString, this is what’s printed:

d
oo
ggg
ssss

6. You start one day with a penny, and then on every subsequent day your money doubles – so on day two you have 2 cents, day 3 4 cents, day 4 you have 8 cents, and so forth. On what day do you exceed one million dollars for the first time?

    Opoly skeleton:

    public class Opoly {
        public int spin(){}
        public void move(){}
        public void spinAndMove(){}
        public boolean isGameOver(){}
        public void drawBoard{}
        public void displayReport{}
        public void playGame(){}
    }

    Given the first six methods – write playGame()