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**Desk Check: BottleCapPrize.java**

**Lines**

< 1> import java.io.IOException;

< 2> import java.io.PrintWriter;

< 3> import java.io.File;

< 4> import java.util.Scanner;

< 5> public class BottleCapPrize

< 6> {

< 7> PrintWriter outFile = new PrintWriter(new File("CapPrize.txt"));

< 8>

< 9> int token;

<10> int counter = 0;

<11> int randCap = 0;

<12> int sum = 0;

<13>

<14> for(int trial = 0; trial < 1000; trial++)

<15> {

<16> counter = 0;

<17>

<18> while(randCap != 1)

<19> {

<20> randCap = (int)(Math.random() \* 10);

<21> counter++;

<22> } //end of while loop

<23> outFile.println(counter);

<24> randCap = 0;

<25> }//end of for loop

<26> outFile.close(); //close the file when finished

<27>

<28> Scanner inFile = new Scanner(new File("CapPrize.txt"));

<29>

<30> while(inFile.hasNextInt())

<31> {

<32> token = inFile.nextInt();

<33> sum = sum + token;

<34> }//end of while loop

<35> inFile.close(); //close the file when finished

<36> double average = sum/1000;

<37> System.out.println("Average Number of Bottles to Drink for the Prize: " + average);

<38> }//end of main method

<39> }//end of class