Java SET-I : Q3

Due on 2021-04-11, 12:00 IST

In the following program, an array of type integer (arr[]) is declared. The array can store any integer value. The following program is to *print the average value of all the even numbers including zero stored in the array (arr[]).*

Note: *Integer* type array 'arr[]' is already defined and initialized. Use *double* type variables wherever applicable.

Private Test cases used for evaluation	Input	Expected Output	Actual Output	Status
Test Case 1	2	162.0	162.0	Passed

The due date for submitting this assignment has passed.
1 out of 1 tests passed.
You scored 100.0/100.

Assignment submitted on 2020-12-12, 10:31 IST
Your last recorded submission was :

```java
import java.util.Scanner;
public class Question3{
    public static void main(String args[]){

        int arr[] = new int[6];

        // Array initialization is hidden

int x[] = {4,9,33,18,0,76};
        int y[] = {45,0,7,324,545,57};
        Scanner sc = new Scanner(System.in);
        if(sc.nextInt()==1){
        arr = x;
        }else{
            arr = y;
        }
//Use for or while loop do the operation.
int len = arr.length;
double sum = 0;
double avg = 0;
int even = 0;

for (int i=0; i<len; i++)
{
  if (arr[i] % 2 == 0)
  {
    ++even;
    sum += arr[i];
  }
}
if (even == 0)
{
  System.out.print(avg);
}
else
{
  avg = sum / (double)even;
  System.out.print(avg);
}


    }
}
```

Sample solutions (Provided by instructor)

```java
import java.util.Scanner;
public class Question3{
    public static void main(String args[]){

        int arr[] = new int[6];

        // Array initialization is hidden

int x[] = {4,9,33,18,0,76};
        int y[] = {45,0,7,324,545,57};
        Scanner sc = new Scanner(System.in);
        if(sc.nextInt()==1){
        arr = x;
        }else{
            arr = y;
        }
double total=0.0,count=0.0;
    for(int i=0; i<arr.length;i++){
        if(arr[i]%2==0){
        total=total+arr[i];
        count++;
        }
    }
    double avg = total/count;
    System.out.print(avg);
  }
}
```