

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

Test Case 1

Input

Expected Output

Actual Output

Status

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 :

```
1 import java.util.Scanner;
2 public class Question3{
3     public static void main(String args[]){
4
5         int arr[] = new int[6];
6
7         // Array initialization is hidden
8
9         int x[] = {4,9,33,18,0,76};
10        int y[] = {45,0,7,324,545,57};
11        Scanner sc = new Scanner(System.in);
12        if(sc.nextInt()==1){
13            arr = x;
14        }else{
15            arr = y;
16        }
17        //Use for or while loop do the operation.
18        int len = arr.length;
19        double sum = 0;
20        double avg = 0;
21        int even = 0;
22
23        for (int i=0; i<len; i++)
24        {
25            if (arr[i] % 2 == 0)
26            {
27                ++even;
28                sum += arr[i];
29            }
30        }
31        if (even == 0)
32        {
33            System.out.print(avg);
34        }
35        else
36        {
37            avg = sum / (double)even;
38            System.out.print(avg);
39        }
40    }
41
42 }
43 }
```

Sample solutions (Provided by instructor)

```
1 import java.util.Scanner;
2 public class Question3{
3     public static void main(String args[]){
4
5         int arr[] = new int[6];
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9         int x[] = {4,9,33,18,0,76};
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11        Scanner sc = new Scanner(System.in);
12        if(sc.nextInt()==1){
13            arr = x;
14        }else{
15            arr = y;
16        }
17        double total=0.0,count=0.0;
18        for(int i=0; i<arr.length;i++){
19            if(arr[i]%2==0){
20                total=total+arr[i];
21                count++;
22            }
23        }
24        double avg = total/count;
25        System.out.print(avg);
26    }
27 }
```

Course outline

How does an NPTEL online course work?

Week 0 : Assignment 0

Week 1 :

Week 2 :

Week 3 :

Week 4 :

Week 5 :

Week 6 :

Week 7 :

Week 8 :

Week 9 :

Week 10 :

Week 11 :

Week 12 :

Solution

DOWNLOAD VIDEOS

Text Transcripts

Programming Test - (April 11 - 10AM - 12 PM)

Java SET-I : Q1

Java SET-I : Q2

Java SET-I : Q3

Java SET-I : Q4

Java SET-I : Q5

Programming Test - (April 11 - 8PM - 10 PM)