

Question No 4

Write a program in C# Sharp to separate odd and even integers in separate arrays. Go to the editor
Test Data:

Input the number of elements to be stored in the array :5

Input 5 elements in the array:

element - 0: 25

element - 1: 47

element - 2: 42

element - 3: 56

element - 4: 32

Expected Output:

The Even elements are:

42 56 32

The Odd elements are:

25 47

- ➔ The Answer of this Question has been uploaded as (.ipynb) in GitHub Repository and as the C#(.Net) Compiler is not Executing ReadLine() function in jupyter Notebook, I have used online compiler(i.e. [Online C# Compiler \(Editor\) \(programiz.com\)](https://www.programiz.com/csharp/online-compiler)) to get an output of the code.
- ➔ Kindly Consider the method of submission



The screenshot shows a C# program in an online compiler. The code defines a class 'OddEven' with a static method 'Main()'. It declares three integer arrays: 'arr1' (size 10), 'arr2' (size 10), and 'arr3' (size 10). It then prompts the user to input the number of elements to be stored in the array (n). In the example, n is 5. Next, it prompts the user to input n elements in the array. The input elements are 25, 47, 42, 56, and 32. The program then separates these elements into two arrays: 'arr1' for even elements (42, 56, 32) and 'arr2' for odd elements (25, 47). The output shows the even elements and then the odd elements.

```
1 using System;
2 public class OddEven
3 {
4     public static void Main()
5     {
6         int[] arr1 = new int[10];
7         int[] arr2 = new int[10];
8         int[] arr3 = new int[10];
9         int n;
10
11         Console.WriteLine("Separate odd and even integers in diff arrays.\n");
12         Console.WriteLine("-----\n");
13
14         Console.WriteLine("Input number of elements to be stored in array :");
15         n = Convert.ToInt32(Console.ReadLine());
16
17         Console.WriteLine("Input {0} elements in the array :\n",n);
18         for(d=0;d<n;d++)
19         {
20             Console.WriteLine("element - {0} : ",d);
21             arr1[d] = Convert.ToInt32(Console.ReadLine());
22         }
23
24         for(d=0;d<n;d++)
25         {
26             Console.WriteLine("element - {0} : ",d);
27             arr2[d] = Convert.ToInt32(Console.ReadLine());
28         }
29
30         Console.WriteLine("The Even elements are :");
31         for(d=0;d<n;d++)
32         {
33             Console.WriteLine(arr1[d]);
34         }
35
36         Console.WriteLine("The Odd elements are :");
37         for(d=0;d<n;d++)
38         {
39             Console.WriteLine(arr2[d]);
40         }
41     }
42 }
```

Output:

```
Separate odd and even integers in diff arrays:
-----
Input number of elements to be stored in array :5
Input 5 elements in the array :
element - 0 : 25
element - 1 : 47
element - 2 : 42
element - 3 : 56
element - 4 : 32
The Even elements are :
42 56 32
The Odd elements are :
25 47
```