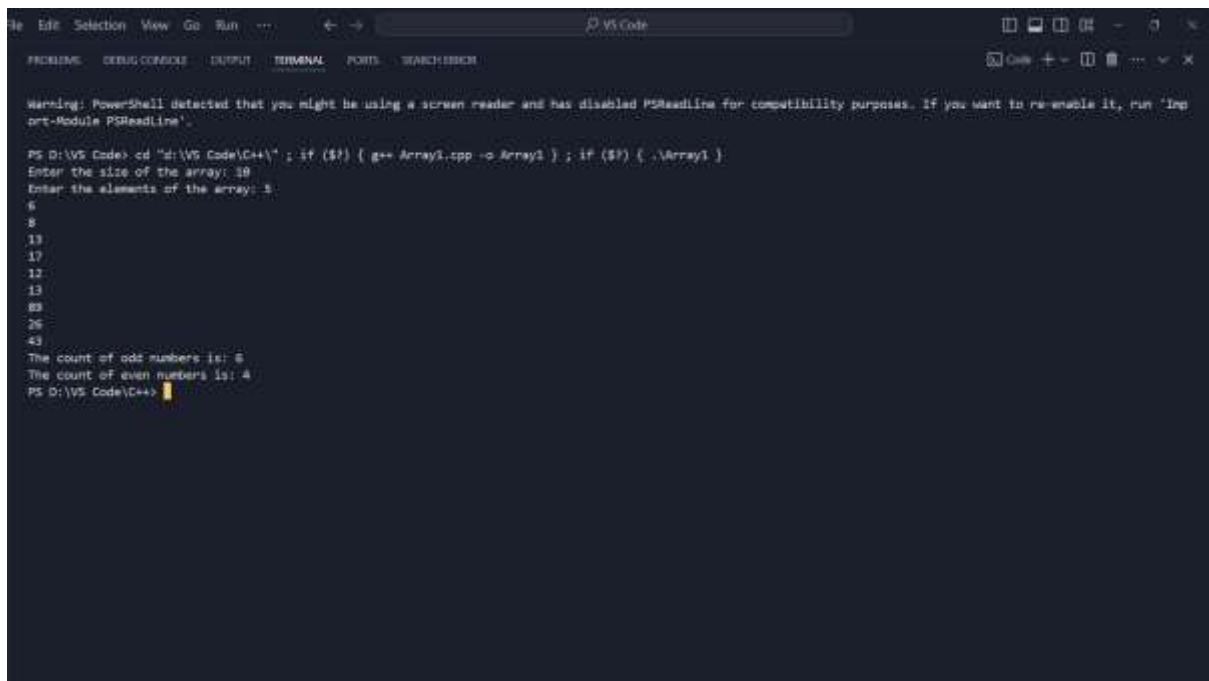


# Physics Wallah

## Assignment Solution of Array Problem

Q1 - Given an integer array(arr) and its size(n), print the count of odd and even integers present in the array.

Output: -



```
Warning: PowerShell detected that you might be using a screen reader and has disabled PSReadline for compatibility purposes. If you want to re-enable it, run 'Import-Module PSReadline'.

PS D:\VS Code> cd "d:\VS Code\C++\" ; if ($?) { g++ Array1.cpp -o Array1 } ; if ($?) { .\Array1 }
Enter the size of the array: 10
Enter the elements of the array: 5
6
8
13
17
12
13
89
26
43
The count of odd numbers is: 5
The count of even numbers is: 4
PS D:\VS Code\C++>
```

Q2 - Given an integer array and its size, find the sum of the greatest and the smallest integer present in the array. Here  $1 < \text{size} < 101$ .

Output: -

```
File Edit Selection View Go Run ... J: VS Code
PROBLEMS DEBUG CONSOLE OUTPUT TERMINAL PORTS SEARCHER

Warning: PowerShell detected that you might be using a screen reader and has disabled PSReadLine for compatibility purposes. If you want to re-enable it, run 'Import-Module PSReadLine'.

PS D:\VS Code> cd "d:\VS Code\C++\" ; if ($?) { g++ Array1.cpp -o Array1 } ; if ($?) { .\Array1 }
Enter the size of the array: 3
47
88
43
12
68
The sum of max and min number is: 101
PS D:\VS Code\C++>
```

Q3 - Given an integer array and its size, reverse the array and print it. Here  $1 < \text{size} < 101$ .

Output: -

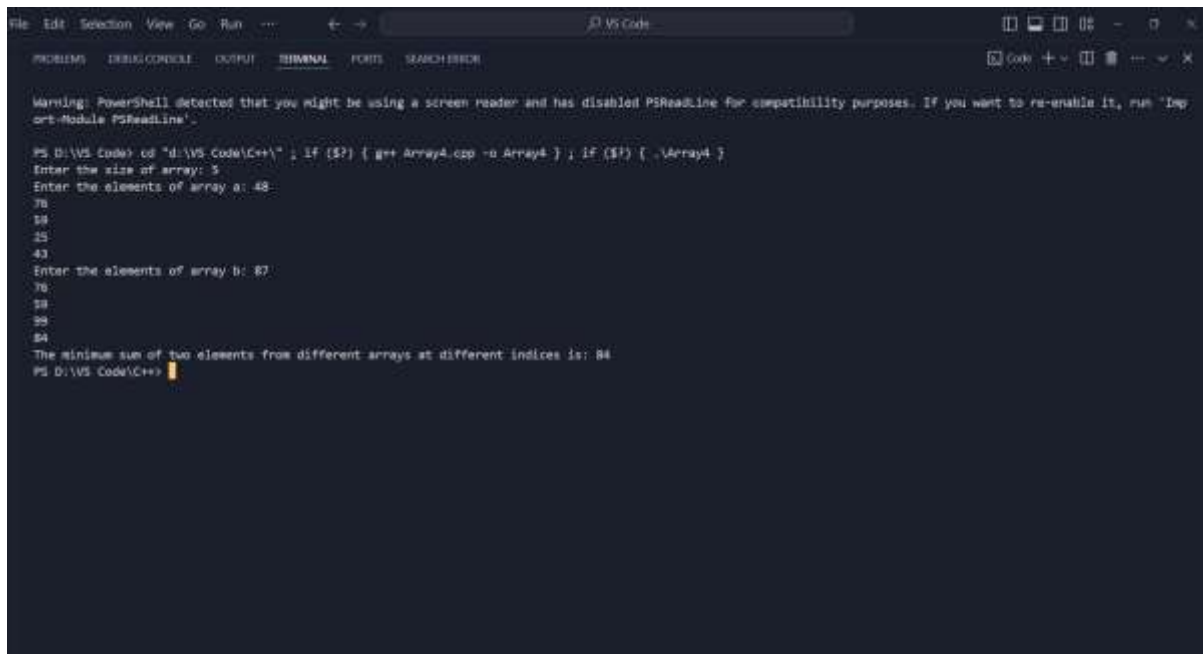
```
File Edit Selection View Go Run ... J: VS Code
PROBLEMS DEBUG CONSOLE OUTPUT TERMINAL PORTS SEARCHER

Warning: PowerShell detected that you might be using a screen reader and has disabled PSReadLine for compatibility purposes. If you want to re-enable it, run 'Import-Module PSReadLine'.

PS D:\VS Code> cd "d:\VS Code\C++\" ; if ($?) { g++ Array3.cpp -o Array3 } ; if ($?) { .\Array3 }
Enter the size of array: 5
Enter the elements of array: 12
48
72
96
95
Reversed array: 48 72 96 95 12
PS D:\VS Code\C++>
```

Q4 - Given two arrays  $a[]$  and  $b[]$  of same size. Your task is to find the minimum sum of two elements such that they belong to different arrays and are not at the same index. Here  $1 < \text{size} < 101$ .

Output: -



```
File Edit Selection View Go Run ... VS Code
PROBLEMS DEBUG CONSOLE OUTPUT TERMINAL PORTS SEARCHER
Warning: PowerShell detected that you might be using a screen reader and has disabled PSReadLine for compatibility purposes. If you want to re-enable it, run 'Import-Module PSReadLine'.
PS D:\VS Code> cd "d:\VS Code\C++\" ; if ($?) { g++ Array4.cpp -o Array4 } ; if ($?) { . Array4 }
Enter the size of array: 5
Enter the elements of array a: 48
76
58
25
43
Enter the elements of array b: 87
76
58
99
84
The minimum sum of two elements from different arrays at different indices is: 84
PS D:\VS Code\C++>
```

Q5 - Given an array containing  $n$  distinct integers in the range  $[0, n]$  (inclusive of both 0 and  $n$ ) (inclusive of both 0 and  $n$ ). Find and return the only number of the range that is not present in the array. Here  $1 < n < 101$ .

Output: -

```
File Edit Selection View Go Run ... VS Code
PROBLEMS DEBUG CONSOLE OUTPUT TERMINAL PORTS SEARCH INDEX
Warning: PowerShell detected that you might be using a screen reader and has disabled PSReadline for compatibility purposes. If you want to re-enable it, run 'Import-Module PSReadline'.

PS D:\VS Code> cd "d:\VS Code\C++\" ; if ($?) { g++ Array5.cpp -o Array5 } ; if ($?) { .\Array5 }
Enter the value of n: 5
Enter the elements of the array: 1
2
3
5
6
The missing number is: -2
PS D:\VS Code\C++>
```

Q6 - Given an integer array containing n elements. Find the element in the array for which all the elements to its left are smaller than it and all the elements to the right of it are larger than it. Here  $1 < n < 101$ .

Output: -

```
File Edit Selection View Go Run ... VS Code
PROBLEMS DEBUG CONSOLE OUTPUT TERMINAL PORTS SEARCH INDEX
Warning: PowerShell detected that you might be using a screen reader and has disabled PSReadline for compatibility purposes. If you want to re-enable it, run 'Import-Module PSReadline'.

PS D:\VS Code> cd "d:\VS Code\C++\" ; if ($?) { g++ Array6.cpp -o Array6 } ; if ($?) { .\Array6 }
Enter the size of array: 5
Enter the elements of array: 4
7
8
6
2
2 4 6 7
PS D:\VS Code\C++>
```