

6. Given an array of integers `nums`, half of the integers in `nums` are odd, and the other half are even.

Program:

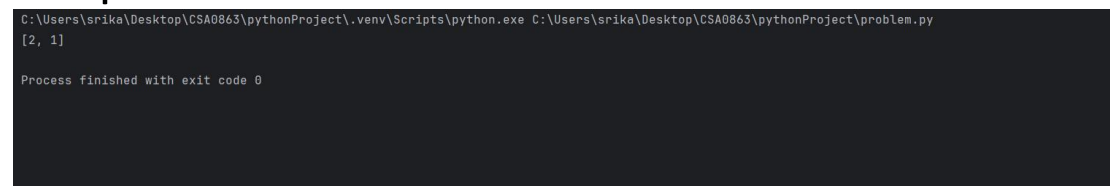
```
def generate_array(n):  
    num=[]  
    for i in range(1,n//2+1):  
        num.append(2*i)  
        num.append(2*i-1)  
    return num
```

`n=10`

`result=generate_array(n)`

`print(result)`

Output:



```
C:\Users\srika\Desktop\CSA0863\pythonProject\.venv\Scripts\python.exe C:\Users\srika\Desktop\CSA0863\pythonProject\problem.py  
[2, 1]  
  
Process finished with exit code 0
```

Time complexity:  $O(n)$