```
15) Given an array of integers half of int in nums are even and half are odd
CODE:
a=[1,2,3,4,5,6]
even=[]
odd=[]
for i in range(len(a)):
    if a[i]%2==0:
         even.append(a[i])
    else:
         odd.append(a[i])
print(even)
print(odd)
OUTPUT:
C:\WINDOWS\system32\cmd. × + √
[2, 4, 6]
[1, 3, 5]
Press any key to continue . . .|
```

TIME COMPLEXITY : O(n)