Problem – 3 : Next permutation array

```python
def next_permutation(arr):
    n = len(arr)
    i = n - 2


    while i >= 0 and arr[i] >= arr[i+1]:
        i -= 1
    if i >= 0:
        j = n - 1
        while arr[j] <= arr[i]:
            j -= 1
        arr[i], arr[j] = arr[j], arr[i]


    left = i + 1
    right = n - 1
    while left < right:
        arr[left], arr[right] = arr[right], arr[left]
        left += 1
        right -= 1


    return arr



arr = [1, 3, 2]
next_permuted_arr = next_permutation(arr)
print(next_permuted_arr)


arr = [3, 2, 1]
next_permuted_arr = next_permutation(arr)
print(next_permuted_arr)
```

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28
29  arr = [3, 2, 1]
30  next_permuted_arr = next_permutation(arr)
31  print(next_permuted_arr)
32
```

input

```
[2, 1, 3]
[1, 2, 3]


...Program finished with exit code 0
Press ENTER to exit console.
```