1.Remove element

```
main.py

1 def remove(nums,val):
2 k=0
3 for num in nums:
4 if num!=val:
5 nums[k]=num
6 k+=1
7 print(num)
8 print("no.of elements:")
9 return k
10 print(remove([1,2,3,4,3],3))
```

Time complexity:O(n)

2.Permutations sequence

```
main.py

C: Save Run Output

1 from itertools import permutations
2 l=list(permutations(range(1,5)))
3 print(l[9])

C: Save Run Output

(2, 3, 4, 1)

=== Code Execution Successful ===
```

Time complexity:O(nlogn)

3.Maximum sub array

Time complexity: $O(n^2)$

4.combination sum

Time complexity:O(nlogn)