

main.py



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Output

```
1 a=["abc","level","madam"]
2 result=next((b for b in a if b==b[::-1]), "")
3 print(result)
```

4
5
6
7
8
9
10

level

=== Code Execution Successful ===

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Output

```
1 n1=[2,3,2]
2 n2=[1,2]
3 set1,set2=set(n1),set(n2)
4 res1=sum(x in set2 for x in n1)
5 res2=sum(x in set1 for x in n2)
6 print(res1,res2)
```

2 1

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```
1 from collections import defaultdict
2 nums=[1,2,1]
3 n=len(nums)
4 total=0
5 for i in range(n):
6     dis_count=0
7     freq=defaultdict(int)
8     for j in range(i,n):
9         freq[nums[j]]+=1
10        if freq[nums[j]]==1:
11            dis_count+=1
12        total+=dis_count**2
13 print(total)
```

15

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```
1 from collections import defaultdict
2 def count_valid_pairs(nums,k):
3     index_map=defaultdict(list)
4     count=0
5     for j,num in enumerate(nums):
6         for i in index_map[num]:
7             if(i*j)%k==0:
8                 count+=1
9             index_map[num].append(j)
10    return count
11 nums1=[3,1,2,2,2,1,3]
12 k1=2
13 print(count_valid_pairs(nums1,k1))
```

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```
1 n1=[1,2,3,4,5]
2 n=len(n1)
3 print(n1[n-1])
```

5

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Output

```
1  n1=[]
2  n2=[5]
3  n3=[3,3,3,3,3]
4  if not n1:
5      print("list is empty")
6  else:
7      sort_n1=sorted(n1)
8      print(sort_n1[-1])
9  if not n2:
10     print("list is empty")
11 else:
12     sort_n2=sorted(n2)
13     print(sort_n2[-1])
14 if not n3:
15     print("list is empty")
16 else:
17     sort_n3=sorted(n3)
18     print(sort_n3[-1])
19
```

List is empty

5

3

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```
1 n=[3,7,3,5,2,5,9,2]
2 duplicate=[]
3 final=[]
4 for i in n:
5     if i not in duplicate:
6         duplicate.append(i)
7     else:
8         final.append(i)
9 print(duplicate)
```

10

[3, 7, 5, 2, 9]

=== Code Execution Successful ===