Mock Test - 1

Problem 1

```
var = sorted(list(input()))                    #5/5 private test cases passed
for i in var:
    for j in var:
        for k in var:
            print(i+j+k)
```

Problem 2

```
def process_line(i):                           #5/5 private test cases passed
    f = open('numbers.txt','r')
    lines = f.readlines()
    for j in range(len(lines)):
        lines[j] = lines[j].rstrip().split(',')
    product = 1
    if i < len(lines):
        for k in lines[i]:
            product *= int(k)
        List = list(map(int, lines[i]))
        return len(List),sum(List),product
    else:
        return -1,-1,-1
```

Problem 3

```
def consolidate(students):                     #5/5 private test cases passed
    dic = {}
    subjects = []
    for i in students:
        for j in i:
            if j not in subjects:
                subjects.append(j)
    for sub in subjects:
        dic[sub] = 0
    for sub in subjects:
        for j in students:
            for ele in j:
                if sub == ele:
                    dic[sub] += 1
    return dic
def popular(consol):
    maxi = max(consol.values())
    for key, value in consol.items():
        if value == maxi:
            return key
```

Problem 4

```
n = int(input())                               #3/5 private test cases passed
mat = []
for _ in range(n):
    mat.append(input().split(','))

def swapper(matrix):
    i = 0
    while i < n-1:
        matrix[i], matrix[n-i-1] = matrix[n-i-1], matrix[i]
        i +=1
    return matrix

def transpose(matrix):
    return list(zip(*matrix))

if input() == 'row':
    result = swapper(mat)
else:
    col = transpose(mat)
    result = transpose(swapper(col))

for ele in result:
    print(','.join(ele))
```

Problem 5

```
alpha = ' ABCDEFGHIJKLMNOPQRSTVUWXYZ'          #5/5 private test cases passed
label = input()
Number = sum(alpha.index(c)*(26** i) for i, c in enumerate(label[::-1]))
print(Number)
```