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Computer Science Lab

Problem Set 2

**Question 1**

n = int(input())

if n < 0 or n > 100:

    print('Invalid')

else:

    if n > 90:

        print('S')

    elif n > 80:

        print('A')

    elif n > 70:

        print('B')

    elif n > 60:

        print('C')

    elif n >= 50:

        print('D')

    else:

        print('F')

**Question 2**

n = int(input())

m = int(input())

sum1 = sum2 = sum3 = 0

while n > 0:

    rem = n % 10

    n = n // 10

    if rem > m:

        sum1 += 1

    elif rem < m:

        sum2 += 1

    else:

        sum3 += 1

print(sum1)

print(sum2)

print(sum3)

**Question 3**

n = int(input())

list = []

for i in range(n):

    list.append(int(input()))

compare = int(input())

sum1 = sum2 = sum3 = 0

for i in list:

    if i > compare:

        sum1 += 1

    elif i < compare:

        sum2 += 1

    else:

        sum3 += 1

print(list)

print(sum1)

print(sum2)

print(sum3)

**Question 4**

n = int(input())

comps = {}

for i in range(n):

    m = int(input())

    for i in range(m):

        model = input()

        comps[model] = int(input())

lower = int(input())

upper = int(input())

for i in comps:

    if comps[i] >= lower and comps[i] <= upper:

        print(i)

        print(comps[i])