

```

# -*- coding: utf-8 -*-
import re

P = 2
H = 10

list_numbers = []

sum = 0
multiply = 1
count = 0

while True:
    print("00000000 000000:" , end=' ')
    string = re.sub(r'^0-9\-' , '', input())
    if len(string) == 0:
        print("0 000000 00 00000000000 000000")
        continue

    number = int(string)
    list_numbers.append(number)

    if number < P:
        sum += number
    elif number > H:
        multiply *= number

    if P < H:
        if P < number < H:
            count += 1
    else:
        if H < number < P:
            count += 1

    last_number = list_numbers[len(list_numbers) - 1]
    if last_number == P or last_number == H:
        break

print("000000:" , sum)
print("0000000000000000:" , multiply)
print("000000000000 000000 0 0000000000 000000000 P 0 H:" , count)

```