**Q.1. In this challenge, the user enters a string and a substring. You have to print the number of times that the substring occurs in the given string. String traversal will take place from left to right, not from right to left.**

**NOTE: String letters are case-sensitive.**

**Ans:**

def count\_substring(string, sub\_string):

    count = 0

    for i in range(len(string)):

        if string[i:len(string)].startswith(sub\_string):

            count += 1

    return count

 string = input().strip()

 sub\_string = input().strip()

 count = count\_substring(string, sub\_string)

 print(count)

**Q..2. You are given a string S.  
Your task is to find out if the string S contains: *alphanumeric characters, alphabetical characters, digits, lowercase and uppercase characters*.**

**Ans:**

    s = input()

    print(any(i.isalnum() for i in s) )

    print(any(i.isalpha() for i in s) )

    print(any(i.isdigit() for i in s) )

    print(any(i.islower() for i in s) )

    print(any(i.isupper() for i in s) )

**Q.3. The provided code stub will read in a dictionary containing key/value pairs of name:[marks] for a list of students. Print the average of the marks array for the student name provided, showing 2 places after the decimal.**

**Ans:**

n = int(input())

    student\_marks = {}

    for \_ in range(n):

        name, \*line = input().split()

        scores = list(map(float, line))

        student\_marks[name] = scores

    query\_name = input()

    l1 = list(student\_marks[query\_name])

    addition = sum(l1)

    result = addition/len(l1)

    print('%.2f'% result)

**Q.4. You have a non-empty set , and you have to execute  commands given in  lines.**

**The commands will be *pop, remove* and *discard*.**

**Ans:**

n = int(input())

s = set(map(int, input().split()))

N = int(input())

for \_ in range(N):

    cmd = input().split()

    if(cmd[0] == "pop"):

        s.pop()

    elif(cmd[0] == "remove"):

        s.remove(int(cmd[1]))

    elif(cmd[0] == "discard"):

        s.discard(int(cmd[1]))

print(sum(s))

**Q.5. You are given a string. Split the string on a " " (space) delimiter and join using a - hyphen.**

**Ans:**

def split\_and\_join(line):

    # write your code here

    a = line.split(" ")

    b = "-".join(a)

    return(b)

line = input()

result = split\_and\_join(line)

print(result)