



STUDENT REPORT

DETAILS

Name

ASHWINI R

Roll Number

KUB23CSE013

EXPERIMENT

Title

ADVANCED SUB ARRAY PROBLEM

Description

You are competing in a basketball contest. In this contest the score for each successful shot depends on both the distance from the basket and the player's position. The ball is shot N times, successfully. You are given an array A containing the distance of a player from basket for N shots. The index of array represents the position of the player. Score is calculated by multiplying the position with the distance from the basket.

Your task is to find and return an integer value, representing the maximum possible score you can achieve by choosing a contiguous subarray of size K from the given array.

Note:

- * A subarray is a contiguous part of array.
- * Assume 1 based indexing.
- * The array contains both negative and positive values.
- * Assume the player is standing on a cartesian plane.

Input Format

- **input1**: An integer value N representing the number of shots made by the player
- **input2** : An integer K representing the size of subarray
- **input3** : An array of integers

Sample Input

```
5  
2  
1 2 3 4 5
```

Sample Output

```
14
```

Source Code:

```
n=int(input())
sub=int(input())
arr=list(map(int,input().split()))
maxx=0
for i in range(0,n-sub+1):
    a=arr[i:i+sub]
    summ=0
    inc=1
    for j in a:
        summ=summ+(j*inc)
        inc+=1
    if summ>maxx:
        maxx=summ
print(maxx)
```

RESULT

5 / 5 Test Cases Passed | 100 %



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EXPERIMENT

Title

ANT ON RAIL

Description

There is a ant on your balcony. It wants to leave the rail so sometimes it moves right and sometimes it moves left until it gets exhausted. Given an integer array A of size N which consists of integer 1 and -1 only representing ant's moves.

Where 1 means ant moved unit distance towards the right side and -1 means it moved unit distance towards the left. Your task is to find and return the integer value representing how many times the ant reaches back to original starting position.

Note:

- Assume 1-based indexing
- Assume that the railing extends infinitely on the either sides

Input Format:

input1 : An integer value N representing the number of moves made by the ant.

input2 : An integer array A consisting of the ant's moves towards either side

Sample Input

5

1 -1 1 -1 1

Sample Output

2

Source Code:

```
n=int(input())
arr=list(map(int,input().split()))
summ=0
count=0
for i in range(len(arr)):
    summ+=arr[i]
    if summ==0:
        count+=1
print(count)
```

RESULT

5 / 5 Test Cases Passed | 100 %

KUB

SEO13

B23C

13KU
SEO1

CSE0
JB23

UB23
13K

013
3C,K



STUDENT REPORT

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EXPERIMENT

Title

CHOCOLATE JAR

Description

You are given an integer array of size N, representing jars of chocolates. Three students A, B, and C respectively, will pick chocolates one by one from each chocolate jar, till the jar is empty, and then repeat the same with the rest of the jars. Your task is to find and return an integer value representing the total number of chocolates that student A will have, after all the chocolates have been picked from all the jars.

Note: Once a jar is done A will start taking the chocolates from the new jar.

Input Format :

input1: An integer value N representing the number of jars.

input2: An integer array representing the quantity of chocolates in each jar.

Output Format:

Return an integer value representing the total number of chocolates that student A will have, after all the chocolates are picked.

Example:**Input:**

3

10 20 30

Output:

21

Explanation:

Jar 1: 10 chocolates -> A-4, B-3,C-3

Jar 2: 20 chocolates -> A-7, B-7, C-6

Jar 3: 30 chocolates -> A-10, B-10,C-10

so A gets a total of $4+7+10=21$ chocolates.

Source Code:

```
n=int(input())
arr=list(map(int,input().split()))
summ=0
for i in arr:
    if i%3==0:
        summ+=(i//3)
    elif i%3>0:
        summ+=(i//3)+1
print(summ)
```

RESULT

5 / 5 Test Cases Passed | 100 %



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EXPERIMENT

Title

DIWALI CONTEST

Description

Max is planning to take part in a Diwali contest at a Diwali Party that will begin at 8 PM and will run until midnight (12 AM) i.e., for 4 hours. He also needs to travel to the party venue within this time which takes him **P** minutes. The contest comprises of **N** problems that are arranged in order of difficulty, with problem 1 being the simplest and problem N being the most difficult. Max is aware that he will require $5 \cdot i$ minutes to solve the i^{th} problem.

Your task is help Max find and return an integer value, representing the number of problems Max can solve and reach the party venue within the given time frame of 4 hours.

Note: Max will leave his home at exactly 8 PM to reach the party venue.

Input Format:

input1: An integer value N, representing the total number of problems.

input2: An integer value P, Representing the time to travel in minutes from his home to the party venue.

Example:**Input:**

6

180

Output:

4

Explanation:

The amount of time left to solve the problems is $4 \cdot 60 - 180 = 60$ mins.

1st Problem - 5 mins, Time left = $60 - 5 = 55$ mins

2nd Problem - 10 mins, Time left = $55 - 10 = 45$ mins

3rd Problem - 15 mins, Time left = $45 - 15 = 30$ mins

4th Problem - 20 mins, Time left = $30 - 20 = 10$ mins

5th Problem - 25 mins

So he can solve only 4 problems as he is not left with 25 mins to complete 5th problem.

Source Code:

```
n=int(input())
p=int(input())
rem=4*60-p
count=0
i=1
while rem>=5*i:
    rem=rem-5*i
    count+=1
    i+=1
print(min(n,count))
```

RESULT

5 / 5 Test Cases Passed | 100 %



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EXPERIMENT

Title

DOG AGE

Description

Max has a dog, which is an integer N years old. Now he wants the age of his dog in human years. The internet says that 1 dog year equals to 7 human years. Your task is to find and return an integer value representing the age of Max's dog in human years.

Input Format:

input1: An integer value N representing the age of Max's dog

Output Format:

Return an integer value representing the age of Max's dog in human years

Example:**Input:**

4

Output:

28

Source Code:

```
n=int(input())
dog=n*7
print(dog)
```

RESULT

5 / 5 Test Cases Passed | 100 %



STUDENT REPORT

DETAILS

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EXPERIMENT

Title

ELECTIONS

Description

You are the head of the election committee in your village. Each Political party is associated with a unique number and the votes are represented as an integer array A. where each element contains the party number voted for by the villagers. For a party to win, they must have a majority of votes. our task is to find and return an integer value denoting the winning party's number. Return -1 if there is no party with a majority.

Note: If only one vote is there he is the winner.

Input Format :

input1: An integer value representing the number the number of voters

input2: An integer array A representing the votes of the voters.

output Format:

Return an integer value denoting the winning party's number.Return -1 there is no party with a majority

Example 1:**Input:**

6

1 1 2 2 2 3

Output:

2

Explanation:

As 2 got the most number of votes i.e 3.

Example 2:**Input:**

6

1 2 1 1 2 2

Output:

-1

Explanation:

As both the contestants got same votes there is no majority.

Source Code:

```
n=int(input())
arr=list(map(int,input().split()))
d={}
if n==1:
    print(arr[0])
else:
    for num in arr:
        if num not in d:
            d[num]=1
        else:
            d[num]+=1
x=sorted(d.items(),key=lambda x:x[1], reverse=True)
if x[0][1]==x[1][1]:
    print("-1")
else:
    print(x[0][0])
```

RESULT

6 / 6 Test Cases Passed | 100 %



STUDENT REPORT

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KUB23CSE013

EXPERIMENT

Title

VOWEL REPETITION PROBLEM

Description

Given a string s print the most frequent vowel that is present in the string as a output.

Input Format:

A single line containing the string s.

The input will be read from the STDIN by the candidate

Output Format:

Print a single character which represents the most frequent vowel in the given string.

Example:**Input:**

helloworld

Output:

o

Source Code:

```
s=input()
v="aeiou"
d={}
mx=0
for i in s:
    if i in v:
        if i in d:
            d[i]+=1
        else:
            d[i]=1
        if d[i]>mx:
            mx=d[i]
            ans=i
print(ans)
```

RESULT

5 / 5 Test Cases Passed | 100 %

KU,
^3CSE0,
, KUB23-
SE013
KUB23C
^3KU013-
CSE0
^3CSL
UB23
KUB23CSE0,KU,
^3CSE0,
^3CSE0,
UB23CSE0,KU,



STUDENT REPORT

DETAILS

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KUB23CSE013

EXPERIMENT

Title

SPACE COUNTER

Description

You have been given the task of making the content on a social media platform more user-friendly. Your task is to find and return an integer value representing the count of the number of spaces in a given string S.

Input:

A string S

Output :

Return an integer value representing the count of the number of spaces in a given string S.

Example:**Input:**

Hello World Hey

Output:

2

Source Code:

```
s=input()
print(s.count(' '))
```

RESULT

5 / 5 Test Cases Passed | 100 %



STUDENT REPORT

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KUB23CSE013

EXPERIMENT

Title**NUMBER OF COMBINATIONS LEADING TO A PRODUCT****Description**

Problem Statement:

You are given an array arr and a product m. Your task is to find the number of possible unique triplets whose product of elements is m.

Input Format:

- The first line contains the integer, n
- The second line contains space seperated integers of the array, arr
- The third line contains the product m.

The input will be read from the STDIN by the candidate

Output Format:

The output consists of a single integer, i.e. the count of unique triplets having product m.

The output will be matched to the candidate's output printed on the STDOUT

Example:

Input:

7

5 3 20 10 1 4 2

60

Output:

3

Explanation:

Product m:60

Possible triplets for product m: (5,4,3),(20,3,1), (10,3,2)

The count of unique triplets is 3.

Source Code:

```
n=int(input())
arr=list(map(int,input().split()))
m=int(input())
prod=0
s=[]
count=0
for i in range(0,len(arr)-2):
    for j in range(i+1,len(arr)-1):
        for k in range(j+1,len(arr)):
            prod=arr[i]*arr[j]*arr[k]
            if prod==m:
                count+=1
                s.append(arr[i])
                s.append(arr[j])
                s.append(arr[k])
print(count)
```

RESULT

6 / 6 Test Cases Passed | 100 %



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EXPERIMENT

Title

MINIMUM ARRAY SUM

Description

Paul is given an array A of length N. He must perform the following Operations on the array sequentially:

* Choose any two integers from the array and calculate their average.

* If an element is less than the average, update it to 0. However, if the element is greater than or equal to the average, he need not update it.

Your task is to help Paul find and return an integer value, representing the minimum possible sum of all the elements in the array by performing the above operations.

Note: An exact average should be calculated, even if it results in a decimal.

Input Format:

input1: An integer value N, representing the size of the array A.

input2: An integer array A.

Output Format:

Return an integer value, representing the minimum possible sum of all the elements in the array by

Sample Input

5
1 2 3 4 5

Sample Output

5

Source Code:

```
n=int(input())
arr=list(map(int,input().split()))
arr.sort()
avg=(arr[-1]+arr[-2])/2
summ=0
for i in arr:
    if i>=avg:
        summ+=i
    else:
        summ=0
print(summ)
```

RESULT

5 / 5 Test Cases Passed | 100 %



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EXPERIMENT

Title

MATHS TEST

Description

Alice has a mathematics test for which she is underprepared. She has to do at least one question correctly to pass the test. He decides to do a question which needs her to find the smallest prime number which is larger than a given integer N. Your task is to find and return an integer value representing the smallest prime number larger than N.

Input Format:**input1:** An integer value N**Output Format:**

Return an integer value representing the smallest prime number larger than N.

Sample Input

6

Sample Output

7

Source Code:

```
n=int(input())
while True:
    n+=1
    flag=0
    for i in range(2, (n//2)+1):
        if n%i==0:
            flag=1
            break
    if flag==0:
        print(int(n))
        break
```

RESULT

5 / 5 Test Cases Passed | 100 %



STUDENT REPORT

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EXPERIMENT

Title

MAGIC STRING

Description

Eva has a string S containing lowercase English letters. She wants to transform this string into a Magic String, where all the characters in the string are the same. To do so, she can replace any letter in the string with another letter present in that string.

Your task is to help Eva find and return an integer value, representing the minimum number of steps required to form a Magic String. Return 0, if S is already a Magic String.

Input Specification:

input1: A string S, containing lowercase English letters.

Output Specification:

Return an integer value, representing the minimum number of steps required to form a Magic String. Return 0, if S is already a Magic String.

Sample Input:

aaabbbccdddd

Sample Output:

8

Source Code:

```
s=input()
d={}
for i in s:
    if i in d:
        d[i]+=1
    else:
        d[i]=1
print(len(s)-max(list(d.values())))
```

RESULT

5 / 5 Test Cases Passed | 100 %



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EXPERIMENT

Title

ENCODE THE NUMBER

Description

You work in the message encoding department of a national security agency. Every message that is sent from or received in your office is encoded. You have an integer N, and each digit of N is squared and the squares are concatenated together to encode the original number. Your task is to find and return an integer value representing the encoded value of the number.

input1: An integer value N representing the number to be encoded.

Output :

Return an integer value representing the encoded value of the number.

Sample Input:

167

Sample Output:

13649

Source Code:

```
n=input()
sq=0
enc=''
for char in n:
    sq=int(char)**2
    enc+=str(sq)
print(enc)
```

RESULT

5 / 5 Test Cases Passed | 100 %



STUDENT REPORT

DETAILS

Name _____

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Roll Number

KUB23CSE013

EXPERIMENT

Title

EQUILIBRIUM

Description

You are given an array A of N integers. An equilibrium position is a position where the sum of all integers on its left is equal to the sum of all integers on its right in the array A. Print the index of the equilibrium position.

Note:For any given array there is only a single equilibrium position, if no equilibrium position is found then print "NOT FOUND" without quotes.

The array is 1 indexed.

Input Format:

The input consists of two lines:

The first line contains an integer denoting N.

The second line contains N space-separated integers denoting the elements of the array A.

Input will be read from the STDIN by the candidate

Output Format:

Print the index of the equilibrium position. If no index is found, print "NOT FOUND"

Sample Input

5

24733

Sample Output

3

Source Code:

ode:
KUB23CSE01

```
n=int(input())
l=list(map(int,input().split()))
f=False
ans=0
for i in range(n):
    s1=sum(l[:i])
    s2=sum(l[i+1:])
    if s1==s2:
        f=True
        ans=i
        break
if not f:
    print("NOT FOUND")
else:
    print(ans+1)
```

RESULT

5 / 5 Test Cases Passed | 100 %



STUDENT REPORT

DETAILS

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Roll Number

KUB23CSE013

EXPERIMENT

Title

SIGNATURE FOR LCM

Description

Given two numbers a and b. Find the GCD and LCM of a and b.

Input:

- Two positive integers a and b (1 <=a, b <=1000)

Output:

For GCD function, an integer representing the GCD of a and b

For LCM function, an integer representing the LCM of a and b

Sample Input:

12 18

Output:

6

36

Explanation:

The GCD of 12 and 18 is 6. The LCM of 12 and 18 is 36.

Source Code:

```
def gcd(a,b):  
    while b!=0:  
        a,b=b,a%b  
    return a  
def lcm(a,b):  
    return a*b//gcd(a,b)  
a,b=input().split()  
a,b=int(a),int(b)  
print(gcd(a,b))  
print(lcm(a,b))
```

RESULT

5 / 5 Test Cases Passed | 100 %

KUB

SEO1

B23C

3KU
SEO1

CSE0
JB23

UB23
713K

D13
3C,K



STUDENT REPORT

DETAILS

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KUB23CSE013

EXPERIMENT

Title

MISSING ALPHABETS

Description

Pangram is a sentence containing every letter in the English alphabet. Given a string, find all characters that are missing from the string, Le., the characters that can make the string a Pangram We need to print output in alphabetic order.

For example,

Input: welcome to geeksforgeeks

Output: abdhijnpquvxyz

Source Code:

```
import string
dict=string.ascii_lowercase
s=input()
a=""
for char in dict:
    if char not in s:
        a+=char
print(a)
```

RESULT

5 / 5 Test Cases Passed | 100 %



STUDENT REPORT

DETAILS

Name

ASHWINI R

Roll Number

KUB23CSE013

EXPERIMENT

Title

TARGET SUM

Description

You are given a list of integers, and your task is to write a function that finds the two numbers in the list that add up to a specific target sum. You need to return the indices of these two numbers.

Write a function that takes a list of Integers and a target sum as input and returns a list of two indices (0-based) of the numbers that add up to the target sum. Assume that there is exactly one solution, and you cannot use the same element twice

Sample Input:

```
2 7 11 15  
9
```

Sample Output:

```
[0, 1]
```

Source Code:

```
arr=list(map(int,input().split()))  
target=int(input())  
a=[]  
for i in range(0,len(arr)):  
    for j in range(i+1,len(arr)):  
        if arr[i]+arr[j]==target:  
            a=[i,j]  
print(a)
```

RESULT

5 / 5 Test Cases Passed | 100 %



STUDENT REPORT

DETAILS

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Roll Number

KUB23CSE013

EXPERIMENT

Title

REVERSE THE ORDER OF STRING

Description

You are given a string containing words separated by spaces. Your task is to write a function or program that reverses the order of words in the string.

Sample Input:

Hello World

Sample Output:

World Hello

Source Code:

```
a=input()
set=a.split()
res=' '.join(reversed (set))
print(res)
```

RESULT

5 / 5 Test Cases Passed | 100 %



STUDENT REPORT

DETAILS

Name

ASHWINI R

Roll Number

KUB23CSE013

EXPERIMENT

Title

PEAK ELEMENT FINDER

Description

Description: You are given an N- dimensional array arr[]. A peak element in the array is defined as an element whose value is greater than or equal to its neighboring elements (if they exist). Your task is to find the index of any peak element in the given array

Note: use 0-based indexing

Input:

An integer representing the number of elements in the array. N space-separated integers, denoting the elements of the array.

N space-separated integers ,denoting the elements of the array arr[]

Sample Input:

5

1 3 2 0 4 1

Sample Output:

2

Source Code:

```
def peak(arr,n):
    for i in range(n):
        if i==0:
            if arr[i]>=arr[i+1]:
                return i
        elif i==n-1:
            if arr[i]>=arr[i-1]:
                return i
        else:
            if arr[i+1]<=arr[i] and arr[i]>=arr[i+1]:
                return i
n=int(input())
arr=list(map(int,input().split(" ")))
print(peak(arr,n))
```

RESULT

5 / 5 Test Cases Passed | 100 %

KUB

SEO13

B23C

13KU
SEO1

CSE0
JB23

UB23
13K

D13
3C,K



STUDENT REPORT

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EXPERIMENT

Title

SUB ARRAY WITH MAX SUM

Description

You are given a list of integers, and your task is to find the subarray with the maximum sum. Write a function or method to solve this problem efficiently and return the maximum sum.

Input:

n: the no of elements in the array

nums (List of integers): A list of integers ($1 \leq \text{len(nums)} \leq 10^5$)

Sample input:

8

-1 2 3 10 -4 7 2 -5

Sample output:

20

Explanation:

The max subarry sum is 20. The subarray is [2,3,10,-4,7,2]

Source Code:

```
n=int(input())
arr=list(map(int,input().split()))
maxsum=float('-inf')
for i in range(len(arr)):
    currsum=0
    for j in range(i,len(arr)):
        currsum+=arr[j]
        if currsum > maxsum:
            maxsum=currsum
print(maxsum)
```

RESULT

5 / 5 Test Cases Passed | 100 %

KUB

SEO13

B23C

13KU
SEO1

CSE0
JB23

UB23
13K

D13
3C,K



STUDENT REPORT

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EXPERIMENT

Title

ARDUINO

Description

Tom is an Arduino Programmer. He has designed a program to run his robocar on a horizontal number line. Initially, the car is parked at 0. Given an array A of N integers which can be A, B, C... the robocar runs as follows as per the designed program

First the robocar moves A units in specified direction(right in case the integer is positive and left if the integer is negative).

Then robocar first moves A units and then B units in a specified direction.

In the next step, the robocar moves A units, B units, and then C units in a specified direction.

This process keeps on repeating as per the number of integers in the sequence..

Your task is to find and return an integer value, representing the farthest coordinate reached by the robocar from the beginning to the end of the process.

Sample Input:

1 -2 3 4

Sample Output:

6

Source Code:

```
arr=list(map(int,input().split()))
summ=0
res=0
for i in range(len(arr)):
    summ+=arr[i]
    if abs(summ) > res:
        res=abs(summ)
print(res)
```

RESULT

5 / 5 Test Cases Passed | 100 %



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EXPERIMENT

Title

CANDIES

Description

Let's consider a scenario where there are K candies to be distributed among N children, each uniquely numbered from 1 to N. The distribution commences with Child A, followed by a sequential allocation to the subsequent children in the order: A, A+1, A+2, ..., N. The query at hand is to identify which child will be the last recipient of a candy.

In more explicit terms, after Child x (where $1 \leq x < N$) receives a candy, the subsequent candy is granted to Child x+1. Upon Child N receiving a candy, the distribution cycle restarts, and Child 1 becomes the next recipient.

The primary objective is to ascertain the identity of the child who will receive the last candy in this cyclic distribution.

Note: Each child receives only 1 candy.

Input Format:

The first line of input contains 3 space separated integers N, K and A.

Output Format:

Print the friend who will be the final recipient of the candy.

Constraints:

$1 \leq N \leq K \leq 10^8$

Sample Input:

5 2 1

Sample Output:

2

Source Code:

```
n,k,start=list(map(int,input().split()))
start-=1
print((start+k-1)%n+1)
```

RESULT

6 / 6 Test Cases Passed | 100 %



STUDENT REPORT

DETAILS

Name

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EXPERIMENT

Title

MINIMUM NUMBER OF KEY PRESSES

Description

George has a setup which includes a special keyboard and a monitor , that initially displays 0. The special keyboard has 11 numeric keys (0,1,2,3,4,5,6,7,8,9,00). If he presses 00, the previously displayed value will be multiplied by 100. Whereas, if he presses any other numeric key, the previously displayed value will be firstly multiplied by 10 and then the number on the key will be added to it

You are given a numeric string S. Your task is to help George find and return an integer value, representing the minimum number of key presses to reach the number.

Input Specification:

input: A numeric string s. representing the final number,

Output Specification:

Return an integer value, representing the minimum number of key presses to reach the number.

Sample Input:

100

Sample Output:

2

Source Code:

```
a=input()
i=0
count=0
while i
```

RESULT

6 / 6 Test Cases Passed | 100 %



STUDENT REPORT

DETAILS

Name

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Roll Number

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EXPERIMENT

Title

BEST GRADE

Description

Andrew has a string N consisting of lowercase English letters representing respective grades of N students in his class. His grade is at Pth index. He can swap any two adjacent grades.

Your task is to help Andrew find and return a string value, representing maximized grade by bringing lexicographically smallest character on the Pth index after doing at most K swaps

Note: use 1 based indexing.

Input format:

- (i) The first line contains the string s.
- (ii) The second line contains the integer P.
- (iii) The third line contains the integer K.

Sample Input:

abcdefg

3

2

Sample Output:

a

Source Code:

```
a=input()
pos=int(input())
adj=int(input())
start=max(0,pos-adj-1)
end=min(len(a),pos+adj)
print(min(a[start:end]))
```

RESULT

5 / 5 Test Cases Passed | 100 %

KUB

SEO13

B23C

13KU
SEO1

CSE0
JB23

UB23
13K

D13
3C,K



STUDENT REPORT

DETAILS

Name

ASHWINI R

Roll Number

KUB23CSE013

EXPERIMENT

Title

SPECIAL STRING

Description

Alice has a string A consisting of lowercase English letters. Her friend gives her another string S and asks her to modify string A and replace its characters with the characters present in string S.

But, to achieve the above task, Alice must follow the below steps:

1. Choose a character from string S that has the minimum ASCII distance from the ith character in string A

Replace the ith character in string A with the chosen character in string S

Your task is to find and return an integer value, representing minimum total ASCII distance that is required to modify string A to the characters in string S. Return 0, if all the characters in string S are already present in string A

Sample Input:

abcd

xyz

Sample Output:

86

Source Code:

```
a=input()
s=input()
total=0
for i in a:
    if i not in s:
        distance=9999
        for j in s:
            temp=abs(ord(i)-ord(j))
            if temp < distance:
                distance=temp
        total+=distance
print(total)
```

RESULT

5 / 5 Test Cases Passed | 100 %



STUDENT REPORT

DETAILS

Name

ASHWINI R

Roll Number

KUB23CSE013

EXPERIMENT

Title

NUMBER MATCH

Description

Given a match between team A and team B represented by an array, the task is to determine which team wins based on the occurrences of even and odd numbers in an array.

Rules:

- If an even number has an even occurrence, it supports team A; otherwise, it supports team B.
- Similarly, odd numbers support team B if they have even occurrences, otherwise, they support team A.
- If there's a tie, print 'T 0'.

Input Format:

The first line contains an integer n, denoting the number of elements in the array.

The second line contains n integers separated by space, representing the array elements.

Output Format:

If either of the team wins display the team name ('A' or 'B') and how much support the team wins separated by space.
Else if there is a tie display "T 0"

Sample Input:

6
1 2 2 3 4 4

Sample Output:

A 4

Source Code:

```
n=int(input())
l=list(map(int,input().split()))
a,b=0,0
for i in set(l):
    if i%2==0:
        if l.count(i)%2==0:
            a+=1
        else:
            b+=1
    else:
        if l.count(i)%2==0:
            b+=1
        else:
            a+=1
if a>b:
    print("A",a-b)
elif b>a:
    print("B",b-a)
else:
    print("T 0")
```

RESULT

3 / 5 Test Cases Passed | 60 %



STUDENT REPORT

DETAILS

Name

ASHWINI R

Roll Number

KUB23CSE013

EXPERIMENT

Title

FINDING COMMAS

Description

Liam works as a data analyst for a company that stores massive amounts of numerical data. He has been tasked with determining how many commas are used when writing numbers in the range of 1 to N (inclusive) in a specific format

In this format, if numbers are more than four digits long, commas are used to separate the numbers into groups of three, starting from the right for the representation of the number. Your task is to help Liam find and return an integer value, representing the total number of commas used when writing each integer in the range of 1 to N

Input Specification:

Input: An integer value N. representing the number range.

Output Specification:

Return an integer value, representing total number of commas used when writing each integer in the range of 1 to N.

Sample Input:

5000

Sample Output:

4001

Source Code:

```
n=int(input())
d=len(str(n))
t=0
for i in range(1,d):
    c=(i-1)//3
    num=9*(10**((i-1)))
    t+=c*num
c=(d-1)//3
num=(n-(10**((d-1)))+1
t+=c*num
print(t)
```

RESULT

5 / 5 Test Cases Passed | 100 %

KUB

SEO13

B23C

13KU
SEO1

CSE0
JB23

UB23
13K

D13
3C,K



STUDENT REPORT

DETAILS

Name

ASHWINI R

Roll Number

KUB23CSE013

EXPERIMENT

Title

TOSS AND SCORE

Description

You are playing a game of Toss and Score in the Hillwood City Mall with your friends. The game consists of the following rules:

Toss an unbiased coin multiple times.

For each heads you get 2 points and for each tails you lose 1 point.

The game ends as soon as you get 3 heads in a row, or you toss the coin throughout the length of string S.

You have been given a string S consisting of letters H (for heads) and T (for tails) denoting the sequence results you get on the toss of coin N times. Your task is to find and return an integer value representing the final score you get once the game ends.

Note: The final score can be negative too.

Input Specification:

Input1: A string s. representing the sequence of results you get on the toss of coin N times.

Sample Input:

HHHTT

Output:

6

Source Code:

```
a=input()
score=0
hc=0
for i in a:
    if i=='H':
        score+=2
        hc+=1
        if hc==3:
            break
    else:
        score-=1
        hc=0
print(score)
```

RESULT

5 / 5 Test Cases Passed | 100 %



STUDENT REPORT

DETAILS

Name

ASHWINI R

Roll Number

KUB23CSE013

EXPERIMENT

Title**OBJECT SCORE****Description**

In a family, there are N members each have a capacity of C_i units to buy anything. In a store there are M objects. Each of which have some price P_i and weight W_i print on it. Each of the members go to the store and can buy all those items whose price is less than or equal to their buying capacity and store that bought object in a bag. Find the maximum weight of each of the bags collected by all N members individually.

Input Format:

First line contains two integers N and M where N is the number of members in the house and M is the number of objects in the store.

Second line contains N space-separated integers (C_1, C_2, C_3, \dots)

the next M lines contains each object price and weight(P_i, W_i) as space seperated integers.

Sample Input:

3 4

10 20 30

5 10

15 20

10 25

20 30

Sample Output:

35 85 85

Source Code:

```
N,M=list(map(int,input().split(" ")))
arr=list(map(int,input().split(" ")))
products=[]
for i in range(M):
    price,weight=list(map(int,input().split()))
    products.append([price,weight])
ans=[]
for person in arr:
    total=0
    for prc,wt in products:
        if prc <=person:
            total+=wt
    ans.append(total)
print(*ans,sep=" ")
```

RESULT

2 / 5 Test Cases Passed | 40 %