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	PRAVEEN RAO K	U.C.S.
	Roll Number Net Cast Ath Cast And Andrew Roll Number	
echics	TEMPBTech-CSE022	08
EX	RERIMENT TO THE SECOND	. S.
γ μ	ADVACED SUB ARRAY PROBLEM	55
10,5	ADVACED 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	
EMPBIC	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.	,22 ²
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5	* A subarray is a contiguous part of array.	900
5,5,	* A subarray is a contiguous part of array. * Assume 1 based indexing.	echi
	* Assume 1 based indexing. * The array contains both penative and positive values	
	* Assume 1 based indexing. * The array contains both penative and positive values	
? # Sec S	* Assume 1 based indexing. * The array contains both negative and positive values. * Assume the player is standing on a cartesian plane.	
24 CC	* Assume 1 based indexing. * The array contains both negative and positive values. * Assume the player is standing on a cartesian plane. Input Format	LEN
24 CC	* Assume 1 based indexing. * The array contains both negative and positive values. * Assume the player is standing on a cartesian plane. Input Format	LEN
old fr	* 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	
SEON SELON	* 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	LEN
? # Sec S	* 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	LEN
on the control	* 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	LEN
old fr	* 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	LEN
on the control	* 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	THE STATE OF THE S

```
goals=int(input())
   size=int(input())
   l=list(map(int,input().split()))
   for i in range(0,len(1)):
       sub=l[i:i+size]
       k=1
       s=0
       for j in sub:
           s+=(j*k)
           k+=1
           if s>max:
               max=s
                                                                                                   CSEON TEMPST
   print(max)
RESULT
 5 / 5 Test Cases Passed | 100 \%
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v. cs	PRAVEEN RAO K ROII Number TEMPBTech-CSE022		∠ech'	.022	OBIE	eko'v	W _b
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2	ANT ON RAIL	EWL CH'C	J. KEM.	Stech	EDZZ	NPBTee	csto'l
<	il te. steen stoll	MPBTO	CSKO	(EMP)	. sch. Co	22	\$Techics
3	Description	-U	-< e ^{c/1}	S22 . 08	S ^X	O. CMB	. 80
,ch'	There is a ant on your balcony.It wa exhausted.Given an integer array A			-		-	MPBIL
~°							sk
EMPBIE	is to find and return the integer valu		-				2
	Note:						SEOL
CSEO22	Assume 1-based indexingAssume that the railing extends	infinitaly on the cith	or sides				
CSK	Assume that the railing extends	s infinitely on the enti-	er sides				x ech.
	Input Format:						100
MPBTech	input1 : An integer value N represer	nting the number of	moves made by the	e ant.			
W.	input2 : An integer array A consistir	ng of the ant's move	s towards either sid	de			522 FEM
	Sample Input						2,
£022 (E)	5						S
	1 -1 1 -1 1						echics
C	Sample Output						
atechice.	2						, Q.
~	Source Code: AEMP Blech CSE 022 AEMP Blech CSE 022 AEMP Blech CSE 022	, ctor	NR.	Ö.	LET STEEL	-6N°	SE SERVI
MP	Source code.	1801,C2	22	objech,	£022	RATE	SK C.
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	Tech.	Paleci	CSEO21	EMPB	N.CSELV	SENTE	Cocke
	TEMPS ENCST	of EW.	otech.	022	Sec.	K. K.	By.
	NP HT es	CSEO'L	5k, C2r	2 LEW.	and the second	1835 J.	, 2 E/N
	Source Code: TEMP BIECHICSEO 22 TEMP BIECHICSEO 22 TEMP BIECHICSEO 22	CSEO27 TEMPS TECHTO	MRBTEE	CSEO	SEN SEL	ESK.	SK KM.
	4EM2	' sch' C3	22 - S	(echi	Bko	ing.	E S
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	∠ ∨	CJ.	0, N	N.W.	2.40	VX ∧	CISS

```
def count_returns_to_start(N, A):
    current_position = 0
    return_count = 0

for move in A:
        current_position += move
    if current_position == 0:
        return_count += 1

    return return_count

# Example usage:
    N = int(input())
    A = list(map(int,input().split())) # Example moves
    result = count_returns_to_start(N, A)
    print(result) # Output: 3

RESULT

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CSKO [Description Notes Constitution of the Constitu	sch.
MPBTE	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 fine and return an integer value representing the total number of chocolates that student A will have, after all the	MPB
<i>`</i>	Note: Once a jar is done A will start taking the chocolates from the new jar.	3E022
^	Input Format:	2
3£022	input1: An integer value N representing the number of jars.	~
	input2: An integer array representing the quantity of chocolates in each jar.	, this con
ch.	Output Format:	
100	Return an integer value representing the total number of chocolates that student A will have, after all the chocolates are picked.	522 E
\$		2
	Example:	
	LAGITIPIE.	C
	LAGITIPIE.	ech, c
122 E	Input: 3 10 20 30	
32 ² (E)	Input: 3 10 20 30	
32 ² (E)	Input: 3 10 20 30	
22 TE	Input: 3 10 20 30 Output: 21	KJEZI
22 TE	Input: 3 10 20 30 Output: 21	KJEZI
22 TE	Input: 3 10 20 30 Output: 21 Explanation:	KJEZI
22 Lechtor	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	K SELECTION OF THE PERSON OF T
B C C C C C C C C C C C C C C C C C C C	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	

```
def total_chocolates_for_A(chocolates):
    total_chocolates_A = 0

# Iterate through each jar
for jar in chocolates:
    # Full cycles where A gets 1 chocolate per cycle
    total_chocolates_A += jar // 3

# If there are leftover chocolates and A gets 1 more
    if jar % 3 >= 1:
        total_chocolates_A += 1

return total_chocolates_A
jar=int(input())
chocolates=list(map(int,input(). split ()))
print(total_chocolates_for_A(chocolates))

RESULT

RESULT

S/5 Test Cases Passed | 100 %
```

Logo DETAILS Name PRAVEEN RAO K Roll Number TEMPBTech-CSE022 **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*i minutes to solve the ith 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: 180 Output: **Explanation:** The amount of time left to solve the problems is 4*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

Source Code:

```
def max_problems_solved(N, P):
    # Total available time for solving problems (240 minutes minus travel time)
    remaining_time = 240 - P
    # Initialize counters for time and problems solved
    time\_spent = 0
    count = 0
    \mbox{\tt\#} Iterate over problems from 1 to N
    for i in range(1, N + 1):
        # Time to solve the ith problem
        time_to_solve = 5 * i
        \# Check if there's enough time left to solve this problem
        if time_spent + time_to_solve > remaining_time:
            break # Max can't solve more problems
        # Update the time spent and count of problems solved
        time_spent += time_to_solve
        count += 1
    return count
N=int(input())
P=int(input())
result=max_problems_solved(N,P)
print(result)
```

RESULT

5 / 5 Test Cases Passed | 100 %

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ر ک	TEMPBTech-CSE022 PERIMENT PERIMENT	7
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- D	ELECTIONS STEET SELECT	,ch'
CSEO22	Description Research Cost Of the Cost of t	۔ د
`	You are the head of the election committee in your village. Each Political party is associated with a unique number and the	RATeci
, ec	votes are represented as an integer array A. where each element contains the party number voted for by the villagers. For a	
MPHTec	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.	£022 TE
2	Input Format :	
K022 T	input1: An integer value representing the number the number of voters	stech.co
	input2: An integer array A representing the votes of the voters.	500
STech!	output Format:	
3	Return an integer value denoting the winning party's number.Return -1 there is no party with a majority	12 TEME
.<	Example 1:	L ^L
SIEM	Input:	. (
,	6	ch' CSt
c.	112223	50
echi csk	Output:	×
	2	WEAR E
.08	Explanation:	<i>y</i>
LEW.	As 2 got the most number of votes i.e 3.	, ar
	Example 2:	Segrit
	Input:	,
	6	25%
	121122	ARE
	Output:	
	-1	akk
	Explanation:	329

Source Code:

n=int(input()) arr=list(map(int,input().split())) d={ } if n==1: print(arr[0]) else: for i in arr: if i not in d: d[i]=1 else: d[i]+=1x=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 %

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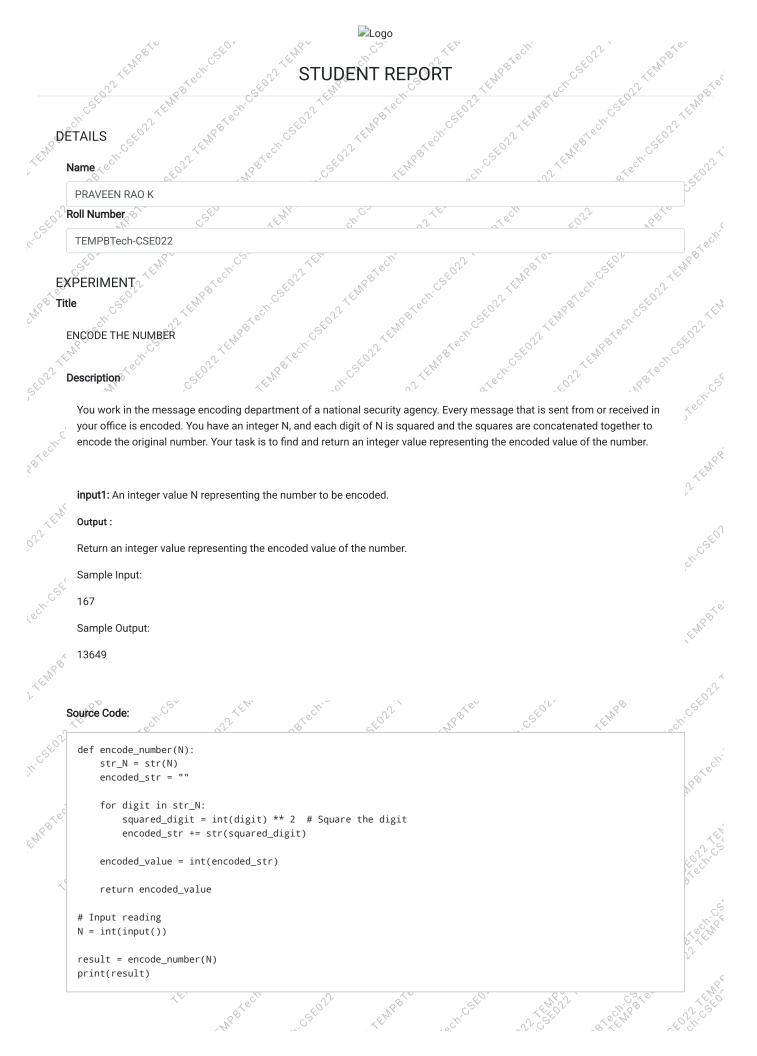
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5 / 5 Test Cases Passed | 100 %

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	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	"VBB"
ENRBLEC	Note: For any given array there is only a single equilibrium position, if no equilibrium position is found then print "NOT FOUND" without	, ¢
Ex	quotes.	5E022 (E)
ζ.		
cst022	Input Format:	8Tech.CE
(The input consists of two lines:	8
Refeeri	The first line contains an integer denoting N.	٠, و`
RPV	The second line contains N space-separated integers denoting the elements of the array A.	22 TEMPS
1	input will be read from the STDIN by the candidate	
EDZZZEN	Output Format:	SKO'
~	Print the index of the equilibrium position. If no index is found, print "NOT FOUND"	echics to
S	Sample Input	
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	24733	r Kellyn
(EMPP	Sample Output	
~~		Carried A
s	Source Code: A feeth of the contest	,
	Test. 100% 100% 100% 100% 100% 100% 100% 100	200
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	Source Code: pter steel	
	The second secon	AA K
	Source Code: Lind of the contest of	J. C.

```
def find_equilibrium_position(N, A):
       total_sum = sum(A)
       left_sum = 0
       for i in range(N):
           right_sum = total_sum - left_sum - A[i]
           if left_sum == right_sum:
               return i + 1
           left_sum += A[i]
       return "NOT FOUND"
   # Input reading
   N = int(input())
   A = list(map(int, input().split()))
   result = find_equilibrium_position(N, A)
   print(result)
RESULT
 5 / 5 Test Cases Passed | 100 %
```

Logo STUDENT REPORT DÉTAILS Name کور PRAVEEN RAO K Roll Number & TEMPBTech-CSE022 **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: from collections import Counter def min_steps_to_magic_string(S): if len(set(S)) == 1: return 0 freq = Counter(S) max_freq = max(freq.values()) return len(S) - max_freq S = input() result = min_steps_to_magic_string(S) print(result)

RESULT

5 / 5 Test Cases Passed | 100 %

```
def next_prime(N):
           num = N + 1
           while True:
             is_prime = True
             for i in range(2, int(num**0.5) + 1):
              if num % i == 0:
                is_prime = False
                break
             if is_prime:
              return num
             num += 1
         N = int(input())
         result = next_prime(N)
         print(result)
     RESULT
5 / 5 Test Cases Passed | 100 %
```

```
def min_sum(arr):
       arr.sort(reverse=True)
       total = arr[0]
       avg = arr[0]
       for i in range(1, len(arr)):
           if arr[i] < avg:</pre>
              break
           total += arr[i]
           avg = (total) / (i + 1)
       return total
   n = int(input())
   arr = list(map(int, input().split()))
   result = min_sum(arr)
                                                                                                      -H.CSED22 TEMP
   print(result)
RESULT
 5 / 5 Test Cases Passed | 100 %
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RESULT
6 / 6 Test Cases Passed | 100 %

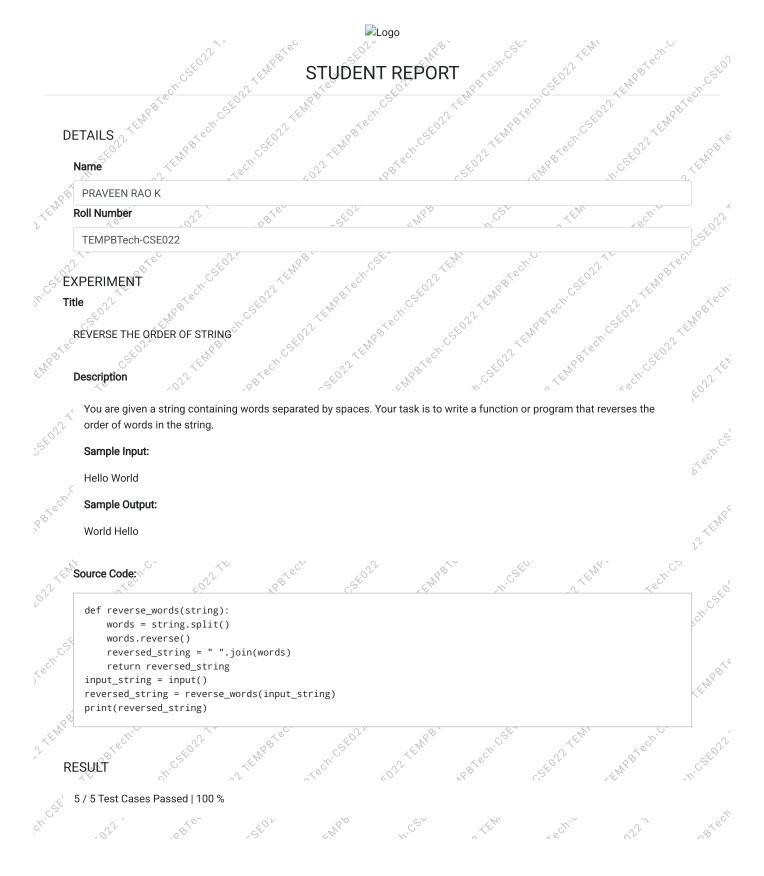
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rechicsk	TEMPBTech-CSE022	
E)		LEWIS SON
ch CSEON	(PERIMENT CONTINUED CONTIN	, in the second
	Problem Statement:	WED
EMPBIC	You are given an array arr and a product m. Your task is to find the number of possible unique triplets whose product of elements is m.	<
EM	Input Format:	5K022
CSEO22	• The accord line contains the integer, n	or of ech.
	The input will be read from the STDIN by the candidate	\$100
(ech)	Output Format:	
MBTechi	The output consists of a single integer, i.e. the count of unique triplets having product m.	322 FEM
	The output will be matched to the candidate's output printed on the STDOUT	322
,E022 (EN	Example:	2
,£0 r	Input:	echicst
Š	7	0
of echics	5 3 20 10 1 4 2	
ò`	60	ZERRE
LEMPR	Output:	
1 EW		is the state of th
	Explanation:	;EX.
	Product m:60	
	Possible triplets for product m: (5,4,3),(20,3,1), (10,3,2)	MARINE
	The count of unique triplets is 3. Source Code: Line House Code:	MANE

```
def count_triplets(arr, n, m):
       unique_triplets = set()
       for i in range(n):
           for j in range(i + 1, n):
               for k in range(j + 1, n):
                   if arr[i] * arr[j] * arr[k] == m:
                       triplet = tuple(sorted([arr[i], arr[j], arr[k]]))
                       unique_triplets.add(triplet)
       return len(unique_triplets)
   # Input Reading
   n = int(input())
   arr = list(map(int, input().split()))
   m = int(input())
   result = count_triplets(arr, n, m)
   print(result)
RESULT
 6 / 6 Test Cases Passed | 100 %
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```
def find_peak_element(arr):
     n = len(arr)
     if n == 1:
       return 0
      if arr[0] > arr[1]:
       return 0
     if arr[n - 1] > arr[n - 2]:
       return n - 1
      for i in range(1, n - 1):
       if arr[i] > arr[i - 1] and arr[i] > arr[i + 1]:
         return i
     return -1
    n = int(input())
    arr = list(map(int, input().split()))
    index = find_peak_element(arr)
    if index != -1:
     print(index)
    else:
     print("No peak element found.")
RESULT
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5 / 5 Test Cases Passed | 100 %

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```
import math

def gcd(a, b):
    return math.gcd(a, b)

def lcm(a, b):
    return (a * b) // gcd(a, b)

# Input reading
    a, b = map(int, input().split())

# Calculate GCD and LCM
gcd_value = gcd(a, b)
lcm_value = lcm(a, b)

print(gcd_value)

print(lcm_value)

RESULT

5/5 Test Cases Passed | 100 %

RESULT

6/6 Test Cases Passed | 100 %

RESULT

7/6 Test Cases Passed | 100 %

RESULT

7/6 Test Cases Passed | 100 %

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8/7 Test Cases Passed | 100 %

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9/7 Test Cases Passed | 100 %

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                                       Name
                                              PRAVEEN RAO K
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                                        Roll Number
                                              TEMPBTech-CSE022
           EXPERIMENT
SPACE COUNTER TO SEPON
                                                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
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Tree.
                                       Source Code:
                                                 def count_spaces(S):
                                                                  return S.count(' ')
                                                 # Example usage
                                                        =input()
                                                 space_count = count_spaces(S)
                                                print(space_count)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    MPBTechi
                                RESULT
                                        5 / 5 Test Cases Passed | 100 %
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Logo
                                                   STUDENT REPORT
DETAILS
       Name کور
         PRAVEEN RAO K
       Roll Number &
         TEMPBTech-CSE022
     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 <= len(nums) <= 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:
         def max_subarray_sum(nums):
             max\_so\_far = nums[0]
             curr_max = nums[0]
             for num in nums[1:]:
                  curr_max = max(num, curr_max + num)
                  max_so_far = max(max_so_far, curr_max)
             return max_so_far
         n = int(input())
         nums = list(map(int, input().split()))
         max_sum = max_subarray_sum(nums)
         print(max_sum)
                          (EM
```

RESULT

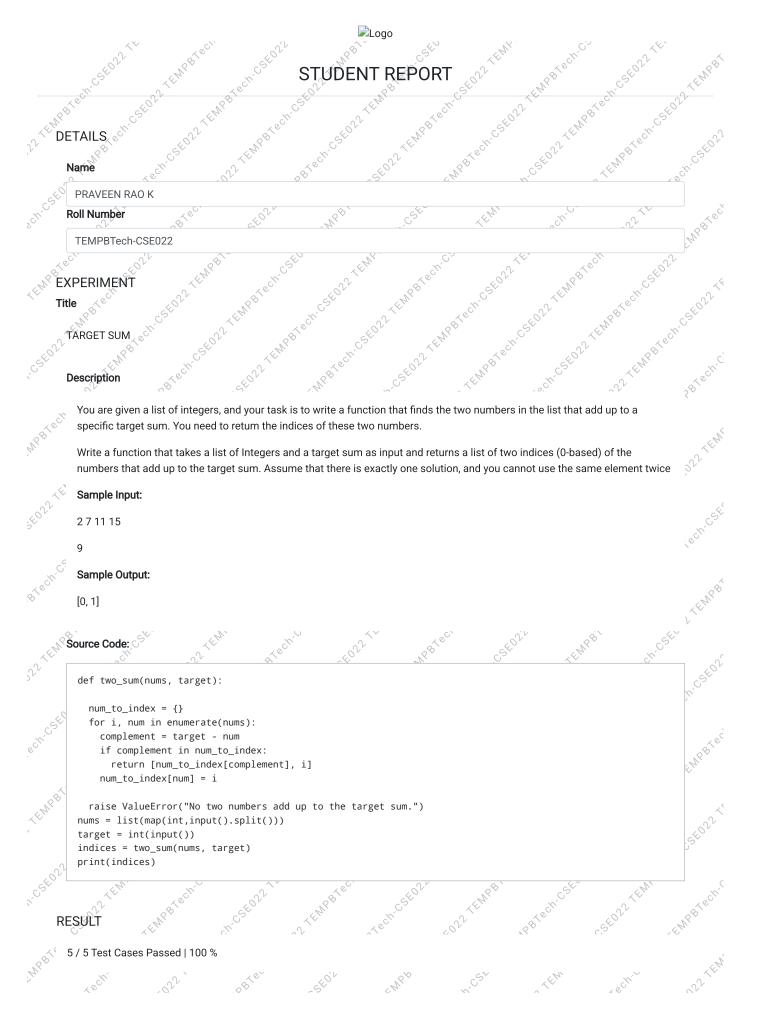
5 / 5 Test Cases Passed | 100 %

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S. C.	SUM OF NUMBERS AT PRIME FACTORS	, 0
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	PERIMENT Pe HIND STATE OF THE PRIME FACTORS PESCRIPTION PERIMENT PERIMEN	EMPBIE
TEMPE	Prime factors of a positive integer are the prime numbers that divide that integer exactly.	
LEM	Given an array arr of n integers and a positive integer num.	.022
	Let's suppose prime factorization of numbers. P X Q XT X X Z , where p,q,r Z are prime numbers.	CSV
CSEO2	Sum of numbers in array arr at indices of prime factors of number num is: a x arr[p] + b x arr[q] + c x arr[r] + + f x arr[z].	
o'.	You are given an array arr of size n and a positive integer num. You are required to calculate the sum of numbers in arr as mentioned above, and print the same.	"MARLECH.
	Note:	"VE"
MPBTec	• If arr is empty, print -1.	5
M	If prime factor of num not found as indices, print 0.	, KO22 (E)
Z [']	Input Format:	3
CEO22	The input consists of three lines:	Ċ.
,	 The first line contains an integer, i.e. n. The second line contains an array arr of length of n. 	atech.ce
70'	The third line contains an integer num	
28Techi	The input will be read from the STDIN by the candidates.	22 TEMPS
	Output Format:	22
EN	Print the sum that was mentioned in the problem statement.	
	Example:	CSEO
	Input:	echics Ed
	6	_ / 6
	11 21 32 45 1 23	EKRIBY.
	6	5,~
	Output:	, C , X9L
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	Explanation:	×-

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Source Code:
    from collections import defaultdict
    def prime_factors(num):
        factors = defaultdict(int)
        while num % 2 == 0:
            factors[2] += 1
            num //= 2
        for i in range(3, int(num**0.5) + 1, 2):
            while num % i == 0:
                factors[i] += 1
                num //= i
        if num > 2:
            factors[num] += 1
        return factors
    def calculate_prime_index_sum(arr, num):
        if not arr:
            return -1
        factors = prime_factors(num)
        total_sum = 0
        valid_prime_found = False
        for prime, power in factors.items():
            if prime < len(arr):</pre>
                total_sum += power * arr[prime]
                valid_prime_found = True
        return total_sum if valid_prime_found else 0
    n = int(input())
    arr = list(map(int, input().split()))
    num = int(input())
    result = calculate_prime_index_sum(arr, num)
    print(result)
RESULT
```

4 / 5 Test Cases Passed | 80 %





(EM. Section 55)

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