0.	∠ Logo	
3CAOS.	STIPPENT DEPODE	30
	STUDENT REPORT AND STUDENT REPORT.	382
DE	TAILS, CROIN 34FL3CROIN 34FL3CROI	
o DE	TAILS, of the same	CAO
N	lame color at the	32730
27307	SAI SHIVANI K	
⇔ ^x R	Roll Number	701 361
9	3BR23CA091	5
C POSEX	PERIMENT AND	. C
[°] Titl		3827,3
S S	e Constitution of Numbers at Prime factors	55^
59 ¹ 3 ¹	Description State	00
C	e SUM OF NUMBERS AT PRIME FACTORS Description SCROON SHAPE CONTROL SHA	130 A
CP	Prime factors of a positive integer are the prime numbers that divide that integer exactly.	
8R23CA	Given an array arr of n integers and a positive integer num.	2001 38bg
,	Let's suppose prime factorization of num is: $p^a x q^b x r^c x x z^f$,where p,q,rz are prime numbers.	00,
3CA097	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 $[z]$.	_
³ C,	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.	382730
ar.	Note:	
38P	 If arr is empty, print -1. If prime factor of num not found as indices, print 0. 	3CAO9
C P	Input Format:	V
8R23CP	The input consists of three lines:	8
	 The first line contains an integer, i.e. n. The second line contains an array arr of length of n. 	2001 38h
0	The third line contains an integer num	
3CR097	The input will be read from the STDIN by the candidates.	230
	Output Format:	3BK
3BR	Print the sum that was mentioned in the problem statement.	
	Example:	CKOO,
	Input:	V ³
	6	
	11 21 32 45 1 23	18 1 3th
	6	2
	Output:	- 12C
	77	3872

Explanation:

A 1

ENG!

```
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
  if __name__ == "__main__":
      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 %

...