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oful	ELECTION OF NUMBERS AT PRIME FACTORS OF THE PROPERTY OF THE PR	25
4JR	SUM OF NUMBERS AT PRIME FACTORS 30 LINE SUM OF	.40
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	XPERIMENT tile SUM OF NUMBERS AT PRIME FACTORS Description LIB ^{2,2} LIB ^{2,3} LIB	
2300		
	Given an array arr of n integers and a positive integer num.	540304
	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.	
5K030	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].	2 KNB53C
	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	240
FUBS	above, and print the same.	C
17/20	Note:	,23C5E035
		1230
2 CSES	Input Format:	NE
い	The input consists of three lines:	5030 FIR
	The first line contains an integer, i.e. n.	
0304	The second line contains an array arr of length of n.The third line contains an integer num	ŁUB23CS
	The input will be read from the STDIN by the candidates.	FIBE
JB23	Output Format:	,
785	Print the sum that was mentioned in the problem statement.	3CSE030
	Example:	300
	Input:	- 1.
	6	30 F1825
	11 21 32 45 1 23	53
	6	E RES
	Output:	J823CSEP
	77	
	Explanation:	430 K
		. 63

```
6=2^1 \times 3^1
  sum=1*arr[2]+1*arr[3]=1*32+1*45=77
Source Code:
  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
```

RESULT

0 / 5 Test Cases Passed | 0 %

if prime

for prime,power in factors.items():

.873° 20° - 58° 1,182° 1,38° 1