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EXI	PERIMENT Solve State of the st	
Title	PERIMENT SOLD STORY OF NUMBERS AT PRIME FACTORS PERIMENT PRIME FACTORS PERIMENT PRIME FACTORS PRIME FACTO	38
Si	UM OF NUMBERS AT PRIME FACTORS	20 KO
9.	3clor 3tr23	
D	escription 2000 3800 3800 2000 3800 2000 3800 2000	233
305	Prime factors of a positive integer are the prime numbers that divide that integer exactly.	
305	Given an array arr of n integers and a positive integer num.	201
	Let's suppose prime factorization of num is: $p^a x q^b x r^c x \dots x z^f$, where p,q,rz are prime numbers.	201
0	Sum of numbers in array arr at indices of prime factors of number num is: a $x arr[p] + b x arr[q] + c x arr[r] + + f x arr[z]$.	
	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.	3
a F	Note:)
BR	 If arr is empty, print -1. If prime factor of num not found as indices, print 0. 	23
-5	Input Format:	1
SCC	The input consists of three lines:	
	 The first line contains an integer, i.e. n. The second line contains an array arr of length of n. The third line contains an integer num 	200
AO'	The input will be read from the STDIN by the candidates.	
	Output Format:	3
38	Print the sum that was mentioned in the problem statement.	
	Example:	
	Input:	J23
	6	
	11 21 32 45 1 23	<i>l</i> Q.
	6	30,
	Output:	
	77	98
	Explanation:	1

9528 Black

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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
  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 %

4 / 3 Test Cases Fasseu | 80 %