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	TEMPBTech-CSE082	- WENN
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	SUM OF NUMBERS AT PRIME FACTORS	Sch. C.
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(echi-cs)	TEMPBTech-CSE082 KPERIMENT, CSECONS LEMP BY CONTROL OF NUMBERS AT PRIME FACTORS Description	Q ^Q
	Prime factors of a positive integer are the prime numbers that divide that integer exactly.	LEW.
ZEMPR	Given an array arr of n integers and a positive integer num.	
) X (E)	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.	£086
	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].	1,03
Sh. CSEO	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.	<°
	Note:	MPBTE
EMPBIC	 If arr is empty, print -1. If prime factor of num not found as indices, print 0. 	
.	Input Format:	34082
, n	The input consists of three lines:	, ,
SKOBY	 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 	, blech
Lech.	The input will be read from the STDIN by the candidates.	
18 P.	Output Format:	285 LEN
	Print the sum that was mentioned in the problem statement.	28
1E	Example:	<
	Input:	08h C5
	6	<i></i> ₹
	11 21 32 45 1 23	eg.
	6	(RE) MILE
	Output:	V
	77	803
	Explanation:	1980

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sum=1*arr[2]+1*arr[3]=1*32+1*45=77
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Source Code:
  def prime_factors(num):
     factors = {}
     divisor = 2
     while num > 1:
         while num % divisor == 0:
             if divisor in factors:
                 factors[divisor] += 1
              else:
                  factors[divisor] = 1
              num //= divisor
          divisor += 1
      return factors
 n = int(input())
 arr = list(map(int, input().split()))
 num = int(input())
 if len(arr) == 0:
     print(-1)
 else:
     factors = prime_factors(num)
     result = 0
      found = False
      for prime, exponent in factors.items():
          if prime < n:
              result += exponent * arr[prime]
              found = True
      if not found:
         print(0)
      else:
          print(result)
```

RESULT

4 / 5 Test Cases Passed | 80 %

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