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A SUNDAY	MOHAMMED JAFFAR oll Numbers. Active	
5	oll Number, Company of the state of the stat	~°ch.
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<i>}</i> 2	escription Company of the Company of	1000 C
S.O.	Prime factors of a positive integer are the prime numbers that divide that integer exactly.	
s Took Les wo	Given an array arr of n integers and a positive integer num.	
	Too and be mile for an in a form of home of the transfer of the forms	2050
5ª KERRÓ	sum of numbers in array arr at indices of prime factors of number num is: a x arrIpI + b x arrIqI + c x arrIrI + + f x arrIqI.	
5 K	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:	Q the Cook
Kodi (sw	 If arr is empty, print -1. If prime factor of num not found as indices, print O. 	
	Input Format:	SUSA
<		3
OSA TEMPS	 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 	Not of
رچوا	The input will be read from the STDIN by the candidates.	
of echicse	Output Format:	SOS
	Print the sum that was mentioned in the problem statement.	5500
18 Land	Example:	
	Input:	Wash
	6	's lo
	11 21 32 45 1 23	
	6	13. 15. 15. 15. 15. 15. 15. 15. 15. 15. 15
	Output:	T.
	π	
	Explanation:	
	$6=2^1 \times 3^1$	Đ,

```
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

4 / 5 Test Cases Passed | 80 %

print(result)

result = calculate_prime_index_sum(arr, num)