```
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):
                       total_sum += power * arr[prime]
                       valid_prime_found = True
               return total_sum if valid_prime_found else 0
           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 %
                          "MBB,
```