Explanation:

```
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 %