Explanation:

F188834

```
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 \%
       . E090
```