Explanation:

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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 \%
```