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 %

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