Explanation:

4 / 5 Test Cases Passed | 80 %

3BRV

JE8891

```
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
```