Explanation:

```
6=2^1 \times 3^1
sum=1*arr[2]+1*arr[3]=1*32+1*45=77
```

Source Code: from collections import defaultdict def prime_factors(num): factors = defaultdict(int) while num % 2 == 0: factors[2] += 1num //= 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 %

2/2