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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 %