The input consists of three lines:

- The first line contains an integer, i.e. n.
- The second line contains an array arr of length of n.
- The third line contains an integer num

The input will be read from the STDIN by the candidates.

Output Format:

Print the sum that was mentioned in the problem statement.

Example:

Input:

6

11 21 32 45 1 23

6

Output:

77

Explanation:

068

108900°

FABFIGES

```
6=2^1 \times 3^1
```

sum=1*arr[2]+1*arr[3]=1*32+1*45=77

3675 688

```
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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68

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