6

77

Output:

Explanation:

ABB!

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

Source Code:

```
def prime_factors(n):
    factors = {}
    # Check for number of 2s
    while n % 2 == 0:
       if 2 in factors:
            factors[2] += 1
        else:
            factors[2] = 1
        n //= 2
    # Check for odd factors from 3 to sqrt(n)
    for i in range(3, int(n^{**}0.5) + 1, 2):
       while n % i == 0:
            if i in factors:
               factors[i] += 1
            else:
                factors[i] = 1
            n //= i
    # If n is a prime number greater than 2
    if n > 2:
       factors[n] = 1
    return factors
def calculate_sum(arr, num):
    if len(arr) == 0:
       return -1 # Handle empty array case
    factors = prime_factors(num)
    total_sum = 0
    for prime in factors.keys():
       if prime < len(arr): # Ensure the index is valid</pre>
            total_sum += factors[prime] * arr[prime]
    return total_sum if total_sum > 0 else 0 # Return 0 if no valid indices
# Input reading
n = int(input().strip()) # Read the size of the array
arr = list(map(int, input().strip().split())) # Read the array
num = int(input().strip()) # Read the number
# Calculate and print the result
result = calculate_sum(arr, num)
print(result)
```

RESULT

4 / 5 Test Cases Passed | 80 %

2/2