```
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 = {}
      while n % 2 == 0:
          if 2 in factors:
              factors[2] += 1
          else:
              factors[2] = 1
          n //= i
      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 > 2:
          factors[n] = 1
      return factors
  def weighted_sum(arr, num):
      if not arr:
          return -1
      factors = prime_factors(num)
      total sum = 0
      found_index = False
      for prime, count in factors.items():
          index = prime - 1
          if 0 <= index < len(arr):</pre>
              total_sum += count * arr[index]
              found_index = True
      return total_sum if found_index else 0
  import sys
  input = sys.stdin.read
  data = input().strip().splitlines()
  n = int(data[0])
  arr = list(map(int, data[1].split()))
```

RESULT

1 / 5 Test Cases Passed | 20 %

num = int(data[2])

print(result)

result = weighted_sum(arr, num)