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Explanation:

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Source Code:
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```
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 %