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Title	PERIMENT AND SERVINE SERVINES OF THE SERVINES	6
and the second	Prime factors of a positive integer are the prime numbers that divide that integer exactly.	,081 300 1356 S
27,56007	You are given an array arr of size n and a positive integer num. You are required to calculate the sum of numbers in arr as mentioned above, and print the same.  Note:	J. A. D. C.
1755001 7ª	<ul> <li>If arr is empty, print -1.</li> <li>If prime factor of num not found as indices, print 0.</li> </ul> Input Format:	390 Proceso
7565091 789	The third line contains an integer num	50000
15.50 97 38.2°		52755097
3800	Print the sum that was mentioned in the problem statement.  Example:	
	Input:	knoceoog of
	6	7
	11 21 32 45 1 23	<sup>18</sup> 60 P(1882)
	Output:	SSS
	?? ??	
	Explanation:	Section 1

6=21 x 31

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 %