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,0070 3BR2	38R23C0070 (PERIMENT, 010 38 P. 13 C010 38	3030 36822
1038213C	Prime factors of a positive integer are the prime numbers that divide that integer exactly. Given an array arr of n integers and a positive integer num.	
	Let's suppose prime Jactorization of num's - p x q x r x x 2 , where p,q,rz are prime numbers.	10382730
38223CD5	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.	3827300
58R23CD071	 If arr is empty, print -1. If prime factor of num not found as indices, print 0. 	5213CDO75
273000703	The input consists of three lines:	
	The third line contains an integer num The t	23000703
3CD070 385	The input will be read from the STDIN by the candidates. Output Format:	5001036
382°	Example:	
		1070 38R2
	11 21 32 45 1 23 6 0.t.t.	1803B223C
	Output: 77	a definition of the contraction
	Explanation: $6=2^{1}\times3^{1}$	13,0,

```
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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