DETAILS  Name  RISHI RAJ SHARMA	SRI'S
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EXPERIMENT Title  SUM OF NUMBERS AT PRIME FACTORS, HAD SUPPLY SUP	SP
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Description of the state of the	,
Prime factors of a positive integer are the prime numbers that divide that integer exactly.	3R23CA
Given an array arr of n integers and a positive integer num.	7
Let's suppose prime factorization of num is: $p^a \times q^b \times r^c \times \times z^f$ , where p,q,rz are prime numbers.  Sum of numbers in array arr at indices of prime factors of number num is: $a \times arr[p] + b \times arr[q] + c \times arr[r] + + f \times arr[z]$ .	c
Sum of numbers in array arr at indices of prime factors of number num is: a x arr[p] + b x arr[q] + c x arr[r] + + f x arr[z].	CAOSA"
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.	
above, and print the same.  Note:	BRI
<ul> <li>If arr is empty, print -1.</li> <li>If prime factor of num not found as indices, print 0.</li> </ul>	A 3BR
Input Format:	CP
The input consists of three lines:	23CA
• The first line contains an integer, i.e. n.	
<ul> <li>The second line contains an array arr of length of n.</li> <li>The third line contains an integer num</li> </ul>	08A
The input will be read from the STDIN by the candidates.	CA084
Print the sum that was mentioned in the problem statement.	SAC ABRA
	35
Input:	
6	RA3THY
11 21 32 45 1 23	,
6	ale?
Output:	ENERGY ?
77	
Explanation:	CABRA

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Source Code:
```

```
import math
def isprime(n):
   if n<=1:
       return False
    for i in range(2,int(math.sqrt(n))+1):
       if n%i==0:
           return False
   return True
N=int(input())
if N==0:
   print(-1)
   exit()
A=list(map(int,input().strip().split()))[:N]
P=int(input())
numsp={}
for i in range(2,P+1):
   while isprime(i) and P%i==0:
        if i in numsp:
           numsp[i]+=1
        else:
                numsp[i]=1
        P //=i
answer=0
for key,value in numsp.items():
   if key
```

RESULT

2 / 5 Test Cases Passed | 40 %

~8<sup>k</sup>3<sup>v</sup>