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E	XPERIMENT AS TO BURNET STATE OF THE AMERICAN AME	NEAGO I
MEROZI	XPERIMENT LAST TOTAL TOT	
ME	SUM OF NUMBERS AT PRIME FACTORS	2/2AME
	XPERIMENT TO THE PRIME FACTORS	220
28/2/		22812AME
	Prime factors of a positive integer are the prime numbers that divide that integer exactly.	, £462.7°
. ባ.	Given an array arr of n integers and a positive integer num.	1
LAMEAGI	Let's suppose prime factorization of num is: $p^a x q^b x r^c x x z^f$, where p,q,rz are prime numbers.	O.A.S.
V	Sum of numbers in array arr at indices of prime factors of number num is: $a \times arr[p] + b \times arr[q] + c \times arr[r] + + f \times arr[z]$.	2281
8	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.	
,2.72281	Note:	.62
		MEROZI
, 2 AMEAG	If prime factor of num not found as indices, print 0.	.4
,12AM.	Input Format:	28124
	The input consists of three lines:	X
1228	The first line contains an integer, i.e. n. The account line contains an enterior and account of the second line contains an enterior of the second line contains and enterior of the second line contains an enterior of the second line contains and the second line contains an enterior of the second line contains and the second line contains an enterior of the second line contains and the second line	0.
×	The second line contains an array arr of length of n.The third line contains an integer num	LANEAGZ
1	The input will be read from the STDIN by the candidates.	L
BIZAME	Output Format:	817
r _o	Print the sum that was mentioned in the problem statement.	2.XX 2.LX
V	Example:	r
	Input:	· Kilka
	6	, ZAMATAKÉ
	11 21 32 45 1 23	.4
	6	TIME
	Output:	SIL
	77	. Sa
	Explanation:	2 DAMELLE
		80,

```
sum=1*arr[2]+1*arr[3]=1*32+1*45=77
```

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 < N:
        answer += value * A[key]
        answer = 0
        break
print(answer)
```

RESULT

5 / 5 Test Cases Passed | 100 %

EAGT