DETAILS Name PAVAN KUMAR REDDY H **Roll Number** KUB23ECE027 **EXPERIMENT** Title SUM OF NUMBERS AT PRIME FACTORS Description 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 factorization of num is:  $p^a \times q^b \times r^c \times .... \times z^f$ , where p,q,r...z are prime numbers. 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]. 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: • If arr is empty, print -1. • If prime factor of num not found as indices, print 0. **Input Format:** The input consists of three lines: • The first line contains an integer, i.e. n. The second line contains an array arr of length of n. • The third line contains an integer num The input will be read from the STDIN by the candidates. Output Format: Print the sum that was mentioned in the problem statement. Example: Input: 6 11 21 32 45 1 23 Output: 77 Explanation:

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