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☆ Largest Subset Sum

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Given an integer, k, we want to find the largest subset of integers in the inclusive range from 1 to k such that the Least Common Multiple (LCM) of the elements in the subset is equal to k. We then want to find the sum of all integers in this subset.

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Complete the maxSubsetSum function in the editor below. It has one parameter: an array of n integers, k. The function must return an array of n long integers where the value at each index i (where $0 \le i < n$), denotes the sum of the elements in the largest subset of integers in the inclusive range from 1 to k_i such that the LCM of the elements in the subset is k_i .

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Input Format

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The first line contains an integer, n, denoting the number of elements in k. Each line i of the n subsequent lines (where $0 \le i < n$) contains an integer describing k_i .

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Constraints

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• $1 \le n \le 10^3$ • $1 \le k_i \le 10^9$

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Output Format

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The function must return an array of n long integers where the value at each index i (where $0 \le i < n$), denotes the sum of the elements in the largest subset of numbers in the inclusive range from 1 to k_i such that the LCM of the elements in the subset is k_i .

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Sample Input 0

2

2

1617

Sample Output 0

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3 7

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Explanation 0

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Given k = [2, 4], we perform the following sequence of operations to fill our return array, sums:

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 \equiv We then return sums = [3, 7] as our answer. 8 YOUR ANSWER 4 We recommend you take a quick tour of our editor before you proceed. X 5 The timer will pause up to 90 seconds for the tour. Start tour 6 Java 7 7 Original code Ö 1 ▶ import ↔; 6 7 public class Solution { 9 8 9 ▼ /* 10 * Complete the function below. 10 */ 11 11 12 static long[] maxSubsetSum(int[] k) { 13 ▼ 12 14 15 16 } 13 17 18 14 15 16 public static void main(String[] args) throws IOException(↔) 19 ▶ 42 } 17 Line: 12 Col: 1 18 Run Code Submit code & Continue 19 (You can submit any number of times) 20 Test against custom input 21



① 01h : 19m : 29s to test end

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