Yandex ( Hello Muscat Programming bootcamp 2019 by Moscow Workshops ICPC

Logout

## Day 1 Div C. Dynamic Programming

9 Mar 2019, 20:46:06 start: 9 Mar 2019, 17:00:00 finish: 9 Mar 2019, 21:00:00

till the end: 00:13:49

start: 9 Mar 2019, 17:00:00 end: 9 Mar 2019, 21:00:00

duration: 04:00:00

E.

Time limit	1 second
Memory limit	64Mb
Input	standard input or sequence.in
Output	standard output or sequence.out

Given a sequence of numbers  $a_1, a_2, \ldots, a_n$ ; you are to find its longest sequentially-multiple subsequence. The subsequence  $\mathbf{a}_{\mathbf{k}_1}, \mathbf{a}_{\mathbf{k}_2}, \dots, \mathbf{a}_{\mathbf{k}_{\mathbf{t}}}$  (  $k_1 < k_2 < \dots < k_t$ ) is called sequentially-multiple if and only if  $a_{k_i} \mid a_{k_i}$  for and i,j, such that  $1\leqslant i < j \leqslant t \pmod{(st a|b)}$  means st b is multiple of a»). Subsequence of length 1 is sequentially-multiple by default.

## Input format

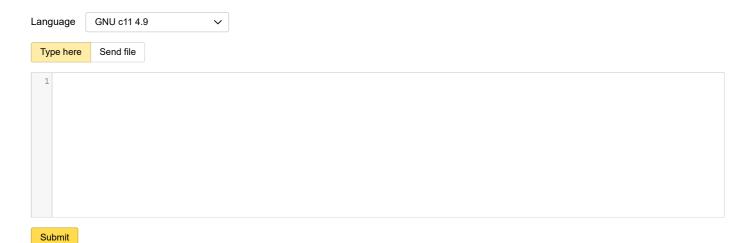
First line of input contains the only positive integer N (  $1 \leqslant N \leqslant 1000$  ) — length of given sequence. The second line contains N positive integers which don't exceed  $2 \cdot 10^9$  — the sequence itself.

## **Output format**

Print the only number — needed length of longest sequentiall-multiple subsequence.

## Sample

Input	Output
4	3
3 6 5 12	



3/9/2019

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