

HOME TOP CATALOG CONTESTS GYM PROBLEMSET GROUPS RATING EDU API CALENDAR HELP

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ITMO Academy: pilot course » Two Pointers Method » Step 2 » Practice

G. Coprime Segment

time limit per test: 1 second
memory limit per test: 1024 megabytes

Given an array of n integers a_i . Let's say that a segment of this array a[l..r] $(1 \le l \le r \le n)$ is good if the GCD of all numbers on this segment is 1. Your task is to find the shortest good segment.

Input

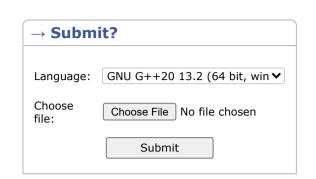
The first line contains an integer n ($1 \le n \le 10^5$). The second line contains integers a_i ($1 \le a_i \le 10^{18}$).

Output

Print one number, the minimum length of a good segment. If there is no good segment, print -1.

Example

input	Сору
5	
4 6 9 3 6	
output	Сору
3	



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