

05 Hr 37 Min
12 Sec

Guidelines

Coding Area

Public Testcase
Submissions

Private Testcase
Submissions

Unevaluated
Submissions

Feedback Form

Graphs

Zone 1 Statistics

Coding Area

A

B

C

D

E

F

ONLINE EDITOR (B)

Binary Equivalent

— Problem Description

Mr. Binary is lost and wants to be found but the problem is he understands only binary. His house is located at a maximum binary equivalence possible, from the given set of numbers. A set is a binary equivalence if the number of 0 zeros and ones from a set of number are equal.

— Constraints

$1 \leq N \leq 20$

$1 \leq \text{Arr}[i] \leq 10^5$, where $\text{Arr}[i]$ is the i th element in the set of N numbers in second line of input

$\text{Arr}[i]$ will be unique

— Input

First line contains N denoting the number of decimal numbers

Next line contains N space separated decimal numbers

+ Output

— Time Limit

1

— Examples

Example 1

Input

3

2 7 10

Output

0011

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