

时间限制: C/C++/Rust/Pascal 5秒, 其他语言10秒
空间限制: C/C++/Rust/Pascal 1024 M, 其他语言2048 M
Special Judge, 64bit IO Format: %lld

题目描述

Given $N = 1000$ positive integers a_1, a_2, \dots, a_N and $M = 10^{18}$, please find two distinct and non-overlapping subsets $S, T \subseteq \{1, 2, \dots, N\}$ such that $\sum_{i \in S} a_i - \sum_{i \in T} a_i$ is a multiple of M .

It can be proven that under the given conditions, there exists at least one valid solution.

输入描述:

The input consists of a single line containing $N = 1000$ non-negative integers a_1, a_2, \dots, a_N ($1 \leq a_i \leq 10^{18}$).

输出描述:

The output consists of a single line containing a string of length $N = 1000$ that only includes 0, 1, and 2.
Where

- The i -th position being 0 indicates that the element is neither in S nor in T ;
- The i -th position being 1 indicates that the element is in S ;
- The i -th position being 2 indicates that the element is in T .

If there are multiple valid solutions, output any one of them.

示例1

输入

复制

0

输出

复制

0

说明

This is a placeholder, and it will NOT be regarded as a test case!

C++ (clang++18)

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ACM模
请通过
入输出
出描述!

运行结果 自测