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: %Ild

题目描述 🔀

Given N=1000 positive integers a_1,a_2,\ldots,a_N and $M=10^{18}$, please find two distinct and non-overlapping subsets $S,T\subseteq\{1,2,\ldots,N\}$ 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 $(1\leq a_i\leq 10^{18})$.

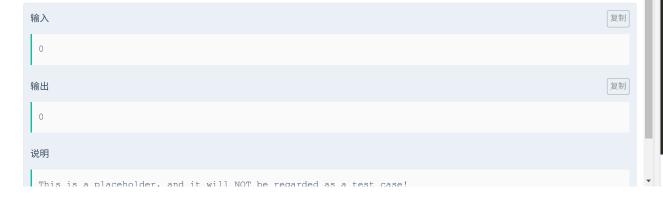
输出描述:

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

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

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

示例1



① C++ (clang++18)

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ACM模 请通过 入输出 出描述

运行结果 自测報