

时间限制: C/C++/Rust/Pascal 4秒, 其他语言8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 integers a_1,a_2,\ldots,a_n and M, please find out a polynomial $f(x)=\sum_{i=0}^k c_i x^i$ with integer coefficients satisfying

- 1. for all $1 \leq i \leq n, f(i) \equiv a_i \pm 1 \mod M$.
- 2. k is minimized.

输入描述:

The first line of the input contains integers n and M $(1 \leq n \leq 30,\ 2 \leq M \leq 10^9)\,.$

The second line of the input contains n integers a_1, a_2, \ldots, a_n $(0 \le a_i < M)$.

Please note that ${\cal M}$ is not necessarily a prime number.

输出描述:

If there exists no solution, output -1 in one line.

Otherwise, output a single integer k $(0 \le k \le 10^6)$ in one line. Then, output k+1 integers c_0, c_1, \ldots, c_k $(0 \le c_i < M)$, denoting the coefficients of the polynomial. If there exist multiple solutions, output any.

示例1

```
輸出
复制

1 3 5 9 11
复制

1 0 2
2
```

① C++ (clang++18)

1

请通过 入输出 出描述!

ACM模

运行结果

自测報