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CSES Problem Set

Josephus Problem II

TASK | SUBMIT | RESULTS | STATISTICS

Time limit: 1.00 s Memory limit: 512 MB

Consider a game where there are n children (numbered $1, 2, \ldots, n$) in a circle. During the game, repeatedly k children are skipped and one child is removed from the circle. In which order will the children be removed?

Input

The only input line has two integers n and k.

Output

Print n integers: the removal order.

Constraints

- $1 \le n \le 2 \cdot 10^5$
- $0 \le k \le 10^9$

Example

Input: 7 2

Output: 3 6 2 7 5 1 4

Sorting and Searching

Towers Traffic Lights Josephus Problem I Josephus Problem II **Nested Ranges Check Nested Ranges Count**

Your submissions

Room Allocation

Factory Machines