





X

X

\_

## **CSES Problem Set**

# Josephus Problem I

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, every second child is removed from the circle, until there are no children left. In which order will the children be removed?

# Input

The only input line has an integer n.

# **Output**

Print n integers: the removal order.

#### **Constraints**

•  $1 < n < 2 \cdot 10^5$ 

# **Example**

Input:

Output: 2 4 6 1 5 3 7

# **Sorting and Searching**

**Playlist Towers** Traffic Lights

Josephus Problem I Josephus Problem II

**Nested Ranges Check Nested Ranges Count** 

**Room Allocation** 

#### Your submissions