Introduction to Computers and Programming

Extra

2024/01/02

1. Problems

1.1 Throwing Cards Away

Given a deck of cards with numbers from 1 to n arranged from top to bottom, a total of m draws will be conducted. In each draw, the top card is removed, and its number is outputted. Subsequently, the removed card is placed at the bottom of the deck.

Input

The input will consist two integers n and m $(1 \le n, m \le 100)$.

Output

Please print out the sequence of the discarded cards. Every number is followed by one space.

Example 1:

Input

77

Output

1357426

Example 2:

Input

 $9\bar{7}$

Output

1357948