

Problem A

Sequence

Time limit: 1s
Memory Limit: 8MB

Given two numbers, N and B. Print N numbers, start from 1. When the current number is equal to 1, then the next sequence will be added by 2. When the current number is more than or equals to B, then the next sequence will be subtracted by 1.

Input

The first line of input will be two numbers, N and B, as described above. N and B will be greater than 1 and less than 1000.

Output

Print every number that has been asked in different line. See the sample input and output for clarity.

| 1st Sample Input |
|--|
| 10 4 |
| Output for 1st Sample Input |
| 1 3 5 4 3 2 1 3 5 4 |

| 2nd Sample Input |
|--------------------------------------|
| 8 5 |
| Output for 2nd Sample Input |
| 1 3 5 4 3 2 1 3 |

Note: Always print a newline (\n) at the end of the answer.