First N Positive Number

Writing a program that output first n positive number.

Ex: n=9 => Print out: 1 2 3 4 5 6 7 8 9

Input

The first line of the input consist of a single integer number t which determines the number of tests.

In each of next t lines there is a single integer number n.

Constraints

- $0 < t \le 1\,000$
- $0 < n \le 1\,000\,000$

Output

For each number n print out the result list. Separate your answers with a new line character.

Example

Input:
4
5
8
1
0
Output:
1 2 3 4 5
1 2 3 4 5 6 7 8
1
invalid