

# Recursive Functions

**nikki** enjoys recursive functions.

This time she enjoys the sorting function. Let 'a' is a permutation of an integers from 1 to n, inclusive, and  $a_i$  denotes the i-th element of the permutation. nikki's recursive function  $f(x)$ , that sorts the first x permutation's elements, works as follows:

==> If  $x=1$ , exit the function.

==> Otherwise, call  $f(x-1)$ , and then make  $\text{swap}(a_{x-1}, a_x)$  (swap the x-th and (x-1)-th elements of a).

nikki's teacher believes that this function does not work correctly. But that-be do not get an F, the nikki wants to show the performance of its function. Help her, find a permutation of numbers from 1 to n, such that after performing the nikki's function (that is call  $f(n)$ ), the permutation will be sorted in ascending order.

## INPUT

The first line of input contains an integer  $T(T \leq 1000)$ , the number of test cases in the input. T lines follow, one for each test case, each containing a integer  $n (1 \leq n \leq 1000)$  - the size of permutation.

## OUTPUT

For each test case in a single line print n distinct integers from 1 to n - the required permutation. Numbers in a line should be separated by spaces.

It is guaranteed that the answer exists.

## SAMPLE

### Input

2

1

2

### Output

1

2 1