# Sums and addends

Given a natural number *n*, please find all non-decreasing sequences of integers, such that the sum of all the elements of the sequence is equal to *n*. Numbers in the sequence may repeat. Due to the imposed politically correct "parity policy" each valid sequence must contain the same number of odd and even elements.

## Input data specification

The first line contains the number of test cases *t*. Each of the following *t* lines contains just one number 1 <= *n* <= 40.

## Output data specification

For each test case print all possible sequences satisfying the problem criteria. Sequences must be given in the lexicographic order, with each sequence printed in a separate line.

If no valid sequence exists for a given value of *n*, print the text "Impossible".

## Example 1

**Input:**
3
4
8
7

**Output:**
Impossible
1 1 2 4
1 2 2 3
1 6
2 5
3 4

## Scoring

By solving this problem you will score 10 points.