

[Submit \(/submissions/new?exercise\\_problem=73\)](/submissions/new?exercise_problem=73)

# Tobby and sequence

Time limit: 1 s

Memory limit: 128000 MBytes

PDF description (/exercises/7/exercise\_problems/73/download)

Tobby really loves the sequences, but he loves the **cute sequence** more. A **cute sequence** is a special sequence that holds the follow:

- The size of the sequence is exactly  $n$
- Each number in the sequence is unique
- Each number in the sequence is  $0 < a_i < 10^9$
- Each  $a_i$  for  $1 < i < n$ , must satisfy  $|a_{i-1} - a_i| > |a_i - a_{i+1}|$

Tobby is not a complicated dog, so he wants any cute sequence. Give  $n$ , find out any **cute sequence**.

## Input

Every test case contains a single integer  $n$  ( $3 \leq n \leq 1000$ ). (Read until EOF).

4

## Output

Print a cute sequence, if exist many cute sequences you can print any of them.

16 8 10 9

Problem setter: Jhon Jimenez