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The Virtual Learning Environment for Computer Programming

No wells
P44291_en
Dinovè Concurs de Programació de la UPC - Semifinal (2021-06-23)
A sequence of numbers has a well if it contains three consecutive numbers such that the endpoints add up more than twice the one in the middle. Formally, $\left(x_{1}, x_{2}, \ldots, x_{n}\right)$ has a well if it exists at least an $i$ with $2 \leq i \leq n-1$ such that $x_{i-1}+x_{i+1}>2 x_{i}$.
Write a program that, given an integer $n$, prints all the sequences with no wells that can be obtained by reordering the sequence $(1,2, \ldots, n)$.

## Input

Input consists of several cases, each one with an $n$ between 1 and $10^{5}$.

## Output

For every $n$, print all the permutations with no wells in lexicographical order. Print a line with 10 dashes at the end of every case.

## Sample input

2
4
7
1


## Problem information

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