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The Virtual Learning Environment for Computer Programming

Cool permutations

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Examen parcial d'Algorísmia, FME (2015-11-03)

In this problem, we will say that a permutation is cool is it does not have two adjacent consecutive numbers. Given n, print all the cool permutations of $\{0, \ldots, n-1\}$.

Input

input consists of several cases, each with an *n* between 1 and 9.

Output

For every case, print in lexicographical order all the cool permutations of $\{0, ..., n-1\}$. Print a line with 20 asterisks at the end of every case.

Sample input

2 3 4

Sample output

Problem information

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