Jutge.org

The Virtual Learning Environment for Computer Programming

Cool permutations

P51435_en

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

Sample output

0																			
Ŭ	4	4	*	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
			^ *																
*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
1		3		0		2													
2		0		3		1													
*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
0		2		4		1		3											
0		3		1		4		2											
1		3		0		2		4											
1		3		0		4		2											
1		4		2		0		3											
2		0		3		1		4											
2		0		4		1		3											
2		4		0		3		1											
2		4		1		3		0											
3		0		2		4		1											
3		1		4		0		2											
3		1		4		2		0											
4		1		3		0		2											
4		2		0		3		1											
******												*							

Problem information

Author : Salvador Roura Translator : Salvador Roura Generation : 2024-05-02 18:51:25

© *Jutge.org*, 2006–2024. https://jutge.org