

A Hamiltonian cycle for a chess knight

Cost: 8 | Solved: 12

Memory limit: 256 MBs		
Time limit: 3 s		
Input: standard input		
Output: standard output		
Task:		
You are given a chessboard of $\emph{\textbf{n}}$ rows and $\emph{\textbf{m}}$ columns.		
You should find such path of the knight's movement that would contain every cell of the chessboard (and each cell must be visited <i>only once</i>).		
Input:		
Contains two naturals \mathbf{n} and \mathbf{m} – the quantity of rows and columns of the chessboard (4 \leq \mathbf{n} , \mathbf{m} \leq 26).		
Output:		
If such path exists, output it. Otherwise write -1.		
Example:		
Input	Output	

	1 1
45	3 2
	4 4
	2 5
	1 3
	2 1
	4 2
	3 4
	1 5
	2 3
	3 1
	1 2
	2 4
	45
	33
	4 1
	2 2
	1 4
	35
	42
	l.

Report a bug (/en/webform-feedback/nojs?submittedfrom=tasks/task/16249)