Server time: 20:09:15



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Announcements

Concentration Game

Time limit: 1000 ms Memory limit: 256 MB

☐ Interactive

Concentration is a card game in which a set of cards are laid face down on a surface and two cards are flipped face up over each turn. The objective of the game is to turn over pairs of matching cards.

There will be 2N cards of N different types labelled with integers from 1 to N.

Interaction

You should read an integer N.

A move consists in choosing two distinct card indices i_1 and i_2 and revealing them. To make a move, print a line with both indices separated by a space between them (and don't forget to flush the output!). If these cards have the same value written on them, the interactor will reply with MATCH and eliminate the cards from the surface. Otherwise, it will reply with two integers, the first representing the value of i_1 and the second representing the value of i_2 .

If at any point in time the interactor decides you've made an invalid move, it will print -1 and exit. You must read this value and exit right away, otherwise you might get a verdict which does not properly reflect your invalid move.

You must print -1 after you have decided to not make any more moves.

Constraints and notes

- $1 < N < 10^3$
- You are allowed at most 2N moves
- You may not ask to make a move with a card that has already been removed from the surface
- The card indices DO NOT change after other cards are removed from the surface

Interaction	Explanation
5	The initial order for the cards is $[3,4,3,4,1,2,5,5,1,2].$
3 4	1 2
	2 4
МАТСН	1 3
MATCH	
Interaction	Explanation