Finished

THE CONTEST HAS ENDED.

C. Fair Play

Score: 1

CPU: 2s
Memory: 512MB

Table Tennis is pretty popular in CSEDU. Whenever you go near the TT board, you will find some people are playing. Continuous playing also created some rivalries. Such two players are SI and HM. They will never play in one team and always will try to beat other person with all his might. Now to settle their war once in for all, a 3 round TT match has been arranged. You need to find out who won that match.

INPUT

First line will contain T (T ≤ 100), number of test cases. Each case will have 3 lines. First line will be the result of the first round and so on. In each line there will be 2 numbers 0 or 1. This numbers mean the results of that round. 1 means win, 0 means loose. If the first number is 1 that means SI won that round. If the second number is 1 that means HM won that round. The player with most round wins will win the match. There will never be a drawn round.

OUTPUT

For each case print a line, **"Case T: X"**, T is the case number and X is either SI or HM based on who won.

Sample

Input	Output
2	Case 1: SI
	Case 2: HM
1 0	
0 1	
1 0	
0 1	
0 1	
1 0	

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