Problem B. Is the Score Consistent

Time Limit	1000 ms
Code Length Limit	50000 B
OS	Linux

Chef is watching a football match. The current score is $A : B$, that is, team 1 has scored A goals and team 2 has scored B goals. Chef wonders if it is possible for the score to become $C : D$ at a later point in the game (i.e. team 1 has scored C goals and team 2 has scored D goals). Can you help Chef by answering his question?

Input Format

- The first line contains a single integer T - the number of test cases. Then the test cases follow.
- The first line of each test case contains two integers A and B - the intial number of goals team 1 and team 2 have scored respectively.
- The second line of each test case contains two integers C and D - the final number of goals team 1 and team 2 must be able to score respectively.

Output Format

For each testcase, output `POSSIBLE` if it is possible for the score to become $C : D$ at a later point in the game, `IMPOSSIBLE` otherwise.

You may print each character of `POSSIBLE` and `IMPOSSIBLE` in uppercase or lowercase (for example, `possible`, `pOSsiBLe`, `Possible` will be considered identical).

Constraints

- $1 \leq T \leq 1000$
- $0 \leq A, B, C, D \leq 10$

Sample 1

Input	Output
3 1 5 3 5 3 4 2 6 2 2 2 2	POSSIBLE IMPOSSIBLE POSSIBLE

Test case 1: The current score is $1:5$. If team 1 scores 2 more goals, the score will become $3:5$. Thus $3:5$ is a possible score.

Test case 2: The current score is $3:4$. It can be proven that no non-negative pair of integers (x, y) exists such that if team 1 scores x more goals and team 2 scores y more goals the score becomes $2:6$ from $3:4$. Thus in this case $2:6$ is an impossible score.

Test case 3: The current score is already $2:2$. Hence it is a possible score.