Problem H. Hungry Cannibals

Input file:	`standard input`
Output file:	`standard output`
Time limit:	1 second
Memory limit:	512 megabytes

A group consisting of a cannibals and b missionaries are travelling together. They are facing a river with a single boat docked at their side of the river. Boat is pretty small; its capacity is enough for at most two people simultaneously. Moreover, boat is not equipped with any kind of motor. The only way to move the boat is to use a paddle, which requires some skill and physical strength.

It turned out that only x among a cannibals and only y among b missionaries are able to use the paddle. In order to sail the boat from one side of the river to the other, at least one of the passengers must be able to use the paddle.

Cannibals would not be cannibals if they were not seeking for human flesh. Namely, if there appear to be p cannibals and q missionaries at the same side of the river (possibly including the docked boat) such that $p > q$ and $q > 0$, missionaries become the part of cannibal dinner which is not acceptable for the purposes of their journey. In other cases (when $p \le q$ or $q = 0$) cannibals behave like civilized people and do follow the accepted transfer plan.

Taking into account all these restriction, find out if there exists a way to transfer all people to the other side of the river or not.

Input

The first line of the input contains an integer T ($1 \le T \le 1000$) denoting the number of test cases.

Each of the following lines contains four integers a, x, b, y ($0 \le a \le b \le 1000$, $0 \le x \le a$, $0 \le y \le b$, $a + b > 0$).

Output

For each test case print `Yes` or `No` depending on whether it is possible for all people to have a safe travel to the other side of the river or not.

Example

standard input	standard output
4 2 0 2 1 1 1 4 0 2 1 2 0 3 1 3 1	Yes Yes No Yes

Note

In the first test case one of the possible ways to transfer everybody to the other side of the river is the following.

- The missionary able to paddle will occupy one of the places in the boat.
- He starts by transferring one cannibal to the other side. Original side of the river contains one missionary and cannibal, and same for the boat, so nobody is eaten.
- He leaves cannibal at the other side of the river and returns back to the original side.
- It contains 2 missionaries and 1 cannibal now, so everybody is still safe.

- He picks one missionary and sails to the other said of the river, leaving missionary there.
- He returns back, picks the remaining cannibal and finally sails to the other side of the river.

In the second case there is only one cannibal, so he cannot eat anybody under any circumstances. So, any way of transferring everybody to the other side of the river is valid.

In the third test case it is not possible to avoid the situation when two cannibals and one missionary are located on the same side of the river.