

Regnerok

Jojo likes to play Regnerok Online, he have N friends who also likes to play Regnerok Online. Jojo want to create a team with all of his friends, but Jojo encounter some problem. In Regnerok Online you can only create a team if the difference level between the highest player and the lowest level player is strictly less than M. Now, Jojo ask you if it is possible to create a team in Regnerok online with all of his N friends.

Format Input

The first line of the input start with T, the number of the test cases. The next lines of the input will be two integers N and M, the number of Jojo friends and the maximum difference between the highest level and the lowest level.

Format Output

The output consist of one line starting with "Case #T: " followed by "YES" or "NO". Please refer to the sample output for clarity.

Constraints

$1 \leq T \leq 100$

$1 \leq N \leq 1000$

$1 \leq M \leq 1,000,000,000$

$1 \leq A_i \leq 1,000,000,000$

Sample Input 1	Sample Output 1
2 5 30 1 2 3 4 5 5 30 1 2 3 4 100	Case #1: YES Case #2: NO