Problem B
Beautiful Square

Harry loves drawing. Harry also loves squares. Today, Harry is going to draw a square.

Harry's square can be divided into $n \cdot n$ unit squares. Let's number the rows from 1 to n from top to bottom. Similarly, let's number the columns from 1 to n, from left to right.

In each unit square, Harry is going to write an integer between 1 and $n \cdot n$. According to Harry, a square is **beautiful** iff it satisfies the following conditions:

- Each integer from 1 to $n \cdot n$ is written in exactly one cell.
- For each i from 1 to $n \cdot n - 1$, the two integers i and $i + 1$ must be written in two unit squares sharing an edge.

Harry has already drawn a square of size n and has written the integer 1 in some cell. Please help Harry write the integers from 2 to $n \cdot n$ to create a **beautiful** square.

Input

The first line of the input contains a single integer t $(1 \leq t \leq 100)$ — the number of test cases. t test cases follow, each test case contains three integers n, r, and c in a single line $(1 \leq r, c \leq n \leq 100)$, where:

- n represents the size of the square Harry has drawn.
- r and c are the row and column of the unit square containing the integer 1.

Output

For each test case:

- If it is not possible to create a beautiful square, print a single line containing 'NO'.
- Otherwise, print 'YES', followed by n lines, each contains exactly n integers, representing the beautiful square. If there are more than one solution, you can print any of them.

Sample Input 1	Sample Output 1
2 4 1 1 5 1 2	YES 1 2 3 4 8 7 6 5 9 10 11 12 16 15 14 13 NO