Given a square chessboard of N x N size, the position of Knight and position of a target is given. We need to find out minimum steps a Knight will take to reach the target position.

**Input:**  
The first line of input contains an integer T denoting the number of test cases. Then T test cases follow. Each test case contains an integer n denoting the size of the square chessboard. The next line contains the X-Y coordinates of the knight. The next line contains the X-Y coordinates of the target.

**Output:**  
Print the minimum steps the Knight will take to reach the target position.

**Constraints:**  
1<=T<=100  
1<=N<=20  
1<=knight\_pos,targer\_pos<=N

**Example:  
Input:**  
2  
6  
4 5  
1 1  
20  
5 7  
15 20

**Output:**  
3  
9