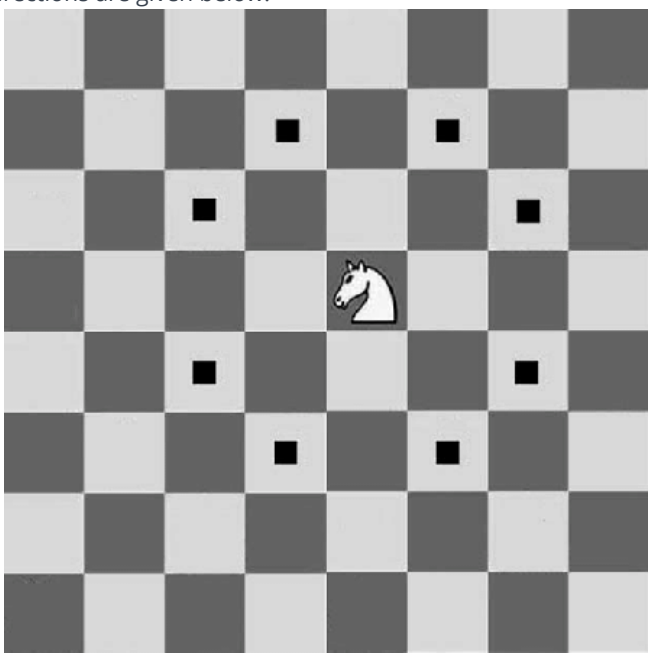
Knight Moves

Problem Statement

You will be given a chessboard of **NxM** size. You can move anywhere in the chessboard freely. You will be given two cells - the knight's cell **K**(Ki and Kj), and the queen's cell **Q**(Qi and Qj). You need to tell the minimum number of steps for the knight to attack the queen if the queen doesn't move.

A knight move in 8 directions. The directions are given below:



Input Format

- First line will contain **T**, the number of test cases.
- First line of each test case will contain **N** and **M**.
- Second line of each test case will contain **Ki** and **Kj**.
- Third line of each test case will contain **Qi** and **Qj**.

Constraints

1. 1 <= **T** <= 100
2. 1 <= **N, M** <= 100
3. 0 <= **Ki, Qi** < N
4. 0 <= **Kj, Qj** < M

Output Format

- Output the minimum number of steps for the knight to reach the queen. If you can't reach to queen, print **-1**.

Sample Input 0

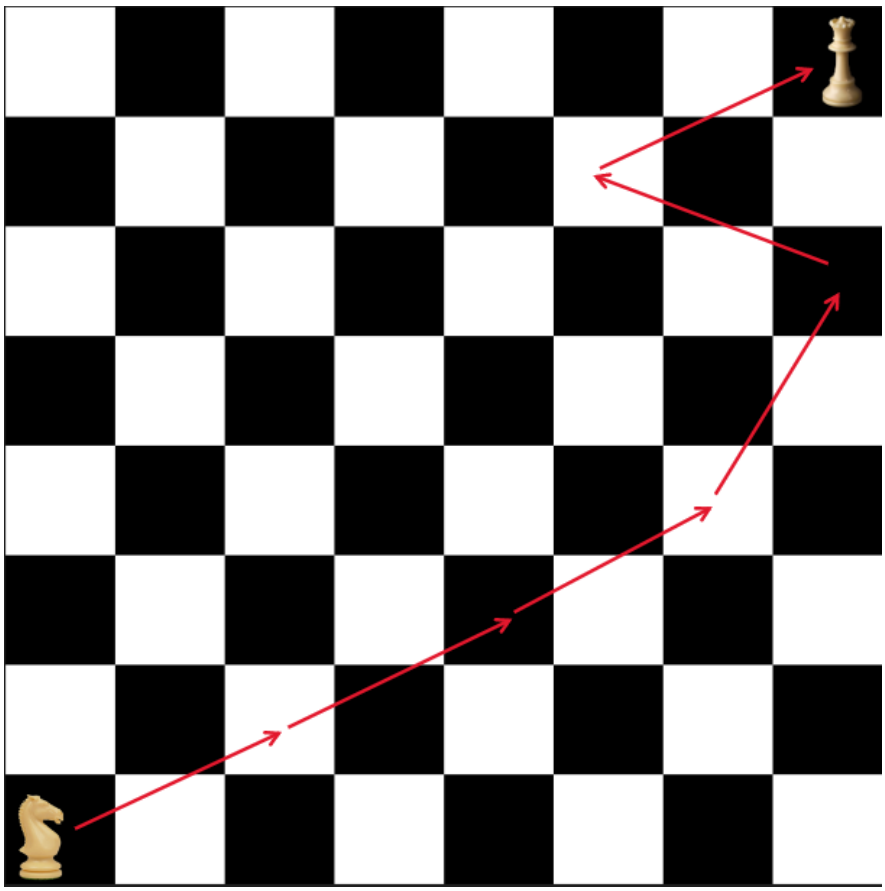
```
4
8 8
0 0
7 7
5 6
0 1
0 1
4 4
0 0
0 1
2 2
0 0
0 1
```

Sample Output 0

```
6
0
3
-1
```

Explanation 0

For the first test case, one of the possible answer could be this way:



Submissions: 130
Max Score: 20
Difficulty: Easy

Rate This Challenge:

More

C++20

```cpp
#include <bits/stdc++.h>

using namespace std;



int main()
{
    // Write your code here

    return 0;
}

```

Line: 1 Col: 1

Upload Code as File Test against custom input Run Code Submit Code