

# Testprotokoll für GameCheck.py

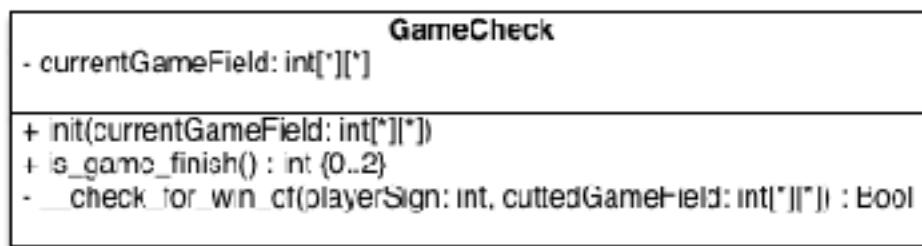
19.11.2016

## Beschreibung des Moduls

Das Modul GameCheck beinhaltet eine Klasse, welche den Zustand des aktuellen Spiels überprüft. Das bedeutet, dass überprüft wird, ob das aktuelle Spiel mit den gegebenen Konstellationen bereits beendet ist, da einer der beiden Spieler gewonnen hat.

## Test der Klasse "GameCheck"

Die Klasse GameCheck besitzt folgende strukturelle Form:



## Test der Methode " \_\_check\_for\_win\_of"

Da diese Methode keine andere Funktion oder Routine aufruft kann der Startpunkt des Tests hier definiert werden.

Für den Test wird das so genannte Black-Box-Prinzip genutzt. Man überprüft also die Ausgabe der Routine für bestimmte Wertebereiche.

Die Methode überprüft, ob ein spezifischer Spieler für eine bestimmte Spielfeldkonstellation gewonnen hat.

Der Algorithmus wird einmal mit einem besonders großen Spielfeld von 20 x 20 und einmal mit einem besonders kleinen Spielfeld 4 x 4 getestet.

Die Spielfelder werden jeweils mit allen möglichen Siegkombinationen und Verliersituationen belegt und an den Algorithmus übergeben.

Die Testergebnisse sollten bestenfalls folgendermaßen ausfallen:

Sei B die Belegung des Algorithmus \_\_check\_for\_win\_of, playerSign der Spielstein, mit welchem der Test durchgeführt wird, Siegkombination ein Spielfeld, mit welchem die Überprüfung zu einem Sieg führt und Verliersituation ein Spielfeld, mit welchem die Überprüfung zu keinem Sieg führt.

B(playerSign, Siegkombination) — — — —> True

B(playerSign, Verliersituation) — — — —> False

## Testergebnisse

Das Skript, welches die Ergebnisse generierte findet man im Verzeichnis tests

Ergebnis für n = 4

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Occupied fields : [ 0 , 0 ] [ 1 , 0 ] [ 2 , 0 ] [ 0 , 1 ] ----->
True
Occupied fields : [ 0 , 1 ] [ 1 , 1 ] [ 2 , 1 ] [ 0 , 2 ] ----->
True
Occupied fields : [ 0 , 2 ] [ 1 , 2 ] [ 2 , 2 ] [ 0 , 3 ] ----->
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Occupied fields : [ 0 , 3 ] [ 1 , 3 ] [ 2 , 3 ] [ 0 , 2 ] ----->
True
Occupied fields : [ 1 , 0 ] [ 2 , 0 ] [ 3 , 0 ] [ 1 , 1 ] ----->
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Occupied fields : [ 1 , 1 ] [ 2 , 1 ] [ 3 , 1 ] [ 1 , 2 ] ----->
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Occupied fields : [ 1 , 2 ] [ 2 , 2 ] [ 3 , 2 ] [ 1 , 3 ] ----->
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Occupied fields : [ 1 , 3 ] [ 2 , 3 ] [ 3 , 3 ] [ 1 , 2 ] ----->
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Occupied fields : [ 2 , 0 ] [ 1 , 0 ] [ 0 , 0 ] [ 2 , 1 ] ----->
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Occupied fields : [ 2 , 1 ] [ 1 , 1 ] [ 0 , 1 ] [ 2 , 2 ] ----->
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Occupied fields : [ 2 , 2 ] [ 1 , 2 ] [ 0 , 2 ] [ 2 , 3 ] ----->
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Occupied fields : [ 2 , 3 ] [ 1 , 3 ] [ 0 , 3 ] [ 2 , 2 ] ----->
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Occupied fields : [ 3 , 0 ] [ 2 , 0 ] [ 1 , 0 ] [ 3 , 1 ] ----->
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Occupied fields : [ 3 , 1 ] [ 2 , 1 ] [ 1 , 1 ] [ 3 , 2 ] ----->
True
Occupied fields : [ 3 , 2 ] [ 2 , 2 ] [ 1 , 2 ] [ 3 , 3 ] ----->
True
Occupied fields : [ 3 , 3 ] [ 2 , 3 ] [ 1 , 3 ] [ 3 , 2 ] ----->
True
Check loose cases...
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Occupied fields : [ 0 , 0 ] [ 1 , 0 ] [ 0 , 1 ] -----> False
Occupied fields : [ 0 , 1 ] [ 1 , 1 ] [ 0 , 2 ] -----> False
Occupied fields : [ 0 , 2 ] [ 1 , 2 ] [ 0 , 3 ] -----> False
Occupied fields : [ 0 , 3 ] [ 1 , 3 ] [ 0 , 2 ] -----> False
Occupied fields : [ 1 , 0 ] [ 2 , 0 ] [ 1 , 1 ] -----> False
Occupied fields : [ 1 , 0 ] [ 0 , 0 ] [ 1 , 1 ] -----> False
Occupied fields : [ 1 , 1 ] [ 2 , 1 ] [ 1 , 2 ] -----> False
Occupied fields : [ 1 , 1 ] [ 0 , 1 ] [ 1 , 2 ] -----> False
Occupied fields : [ 1 , 2 ] [ 2 , 2 ] [ 1 , 3 ] -----> False
Occupied fields : [ 1 , 2 ] [ 0 , 2 ] [ 1 , 3 ] -----> False
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Occupied fields : [ 1 , 3 ] [ 2 , 3 ] [ 1 , 2 ] -----> False
Occupied fields : [ 1 , 3 ] [ 0 , 3 ] [ 1 , 2 ] -----> False
Occupied fields : [ 2 , 0 ] [ 3 , 0 ] [ 2 , 1 ] -----> False
Occupied fields : [ 2 , 0 ] [ 1 , 0 ] [ 2 , 1 ] -----> False
Occupied fields : [ 2 , 1 ] [ 3 , 1 ] [ 2 , 2 ] -----> False
Occupied fields : [ 2 , 1 ] [ 1 , 1 ] [ 2 , 2 ] -----> False
Occupied fields : [ 2 , 2 ] [ 3 , 2 ] [ 2 , 3 ] -----> False
Occupied fields : [ 2 , 2 ] [ 1 , 2 ] [ 2 , 3 ] -----> False
Occupied fields : [ 2 , 3 ] [ 3 , 3 ] [ 2 , 2 ] -----> False
Occupied fields : [ 2 , 3 ] [ 1 , 3 ] [ 2 , 2 ] -----> False
Occupied fields : [ 3 , 0 ] [ 2 , 0 ] [ 3 , 1 ] -----> False
Occupied fields : [ 3 , 1 ] [ 2 , 1 ] [ 3 , 2 ] -----> False
Occupied fields : [ 3 , 2 ] [ 2 , 2 ] [ 3 , 3 ] -----> False
Occupied fields : [ 3 , 3 ] [ 2 , 3 ] [ 3 , 2 ] -----> False

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Ergebnis für n = 20

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Check win cases...
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Occupied fields : [ 0 , 0 ] [ 1 , 0 ] [ 2 , 0 ] [ 0 , 1 ] ----->
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Occupied fields : [ 0 , 1 ] [ 1 , 1 ] [ 2 , 1 ] [ 0 , 2 ] ----->
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Occupied fields : [ 0 , 2 ] [ 1 , 2 ] [ 2 , 2 ] [ 0 , 3 ] ----->
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Occupied fields : [ 0 , 3 ] [ 1 , 3 ] [ 2 , 3 ] [ 0 , 4 ] ----->
True
Occupied fields : [ 0 , 4 ] [ 1 , 4 ] [ 2 , 4 ] [ 0 , 5 ] ----->
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Occupied fields : [ 0 , 5 ] [ 1 , 5 ] [ 2 , 5 ] [ 0 , 6 ] ----->
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Occupied fields : [ 0 , 6 ] [ 1 , 6 ] [ 2 , 6 ] [ 0 , 7 ] ----->
True
Occupied fields : [ 0 , 7 ] [ 1 , 7 ] [ 2 , 7 ] [ 0 , 8 ] ----->
True
Occupied fields : [ 0 , 8 ] [ 1 , 8 ] [ 2 , 8 ] [ 0 , 9 ] ----->
True
Occupied fields : [ 0 , 9 ] [ 1 , 9 ] [ 2 , 9 ] [ 0 , 10 ] ----->
True
Occupied fields : [ 0 , 10 ] [ 1 , 10 ] [ 2 , 10 ] [ 0 , 11 ] ----->
True
Occupied fields : [ 0 , 11 ] [ 1 , 11 ] [ 2 , 11 ] [ 0 , 12 ] ----->
True
Occupied fields : [ 0 , 12 ] [ 1 , 12 ] [ 2 , 12 ] [ 0 , 13 ] ----->
True
Occupied fields : [ 0 , 13 ] [ 1 , 13 ] [ 2 , 13 ] [ 0 , 14 ] ----->
True
Occupied fields : [ 0 , 14 ] [ 1 , 14 ] [ 2 , 14 ] [ 0 , 15 ] ----->
True

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Occupied fields : [ 0 , 15 ] [ 1 , 15 ] [ 2 , 15 ] [ 0 , 16 ] ----->
True
Occupied fields : [ 0 , 16 ] [ 1 , 16 ] [ 2 , 16 ] [ 0 , 17 ] ----->
True
Occupied fields : [ 0 , 17 ] [ 1 , 17 ] [ 2 , 17 ] [ 0 , 18 ] ----->
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Occupied fields : [ 0 , 18 ] [ 1 , 18 ] [ 2 , 18 ] [ 0 , 19 ] ----->
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Occupied fields : [ 0 , 19 ] [ 1 , 19 ] [ 2 , 19 ] [ 0 , 18 ] ----->
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Occupied fields : [ 1 , 0 ] [ 2 , 0 ] [ 3 , 0 ] [ 1 , 1 ] ----->
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Occupied fields : [ 1 , 1 ] [ 2 , 1 ] [ 3 , 1 ] [ 1 , 2 ] ----->
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Occupied fields : [ 1 , 2 ] [ 2 , 2 ] [ 3 , 2 ] [ 1 , 3 ] ----->
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Occupied fields : [ 1 , 5 ] [ 2 , 5 ] [ 3 , 5 ] [ 1 , 6 ] ----->
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Occupied fields : [ 1 , 6 ] [ 2 , 6 ] [ 3 , 6 ] [ 1 , 7 ] ----->
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Occupied fields : [ 1 , 7 ] [ 2 , 7 ] [ 3 , 7 ] [ 1 , 8 ] ----->
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Occupied fields : [ 1 , 8 ] [ 2 , 8 ] [ 3 , 8 ] [ 1 , 9 ] ----->
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Occupied fields : [ 1 , 9 ] [ 2 , 9 ] [ 3 , 9 ] [ 1 , 10 ] ----->
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Occupied fields : [ 1 , 10 ] [ 2 , 10 ] [ 3 , 10 ] [ 1 , 11 ] ----->
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Occupied fields : [ 1 , 11 ] [ 2 , 11 ] [ 3 , 11 ] [ 1 , 12 ] ----->
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Occupied fields : [ 1 , 17 ] [ 2 , 17 ] [ 3 , 17 ] [ 1 , 18 ] ----->
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Occupied fields : [ 1 , 18 ] [ 2 , 18 ] [ 3 , 18 ] [ 1 , 19 ] ----->
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Occupied fields : [ 2 , 0 ] [ 3 , 0 ] [ 4 , 0 ] [ 2 , 1 ] ----->
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Occupied fields : [ 2 , 0 ] [ 1 , 0 ] [ 0 , 0 ] [ 2 , 1 ] ----->
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Occupied fields : [ 2 , 1 ] [ 1 , 1 ] [ 0 , 1 ] [ 2 , 2 ] ----->
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Occupied fields : [ 2 , 12 ] [ 1 , 12 ] [ 0 , 12 ] [ 2 , 13 ] ----->
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Occupied fields : [ 3 , 17 ] [ 2 , 17 ] [ 1 , 17 ] [ 3 , 18 ] ----->
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Occupied fields : [ 4 , 9 ] [ 5 , 9 ] [ 6 , 9 ] [ 4 , 10 ] ----->
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Occupied fields : [ 4 , 9 ] [ 3 , 9 ] [ 2 , 9 ] [ 4 , 10 ] ----->
True

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Occupied fields : [ 4 , 10 ] [ 3 , 10 ][ 2 , 10 ][ 4 , 11 ] ----->
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Occupied fields : [ 4 , 11 ] [ 5 , 11 ][ 6 , 11 ][ 4 , 12 ] ----->
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Occupied fields : [ 4 , 11 ] [ 3 , 11 ][ 2 , 11 ][ 4 , 12 ] ----->
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Occupied fields : [ 4 , 12 ] [ 5 , 12 ][ 6 , 12 ][ 4 , 13 ] ----->
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Occupied fields : [ 4 , 12 ] [ 3 , 12 ][ 2 , 12 ][ 4 , 13 ] ----->
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Occupied fields : [ 4 , 13 ] [ 5 , 13 ][ 6 , 13 ][ 4 , 14 ] ----->
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Occupied fields : [ 4 , 13 ] [ 3 , 13 ][ 2 , 13 ][ 4 , 14 ] ----->
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Occupied fields : [ 4 , 17 ] [ 5 , 17 ][ 6 , 17 ][ 4 , 18 ] ----->
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Occupied fields : [ 4 , 19 ] [ 5 , 19 ][ 6 , 19 ][ 4 , 18 ] ----->
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Occupied fields : [ 4 , 19 ] [ 3 , 19 ][ 2 , 19 ][ 4 , 18 ] ----->
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Occupied fields : [ 5 , 0 ] [ 6 , 0 ][ 7 , 0 ][ 5 , 1 ] ----->
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Occupied fields : [ 5 , 0 ] [ 4 , 0 ][ 3 , 0 ][ 5 , 1 ] ----->
True
Occupied fields : [ 5 , 1 ] [ 6 , 1 ][ 7 , 1 ][ 5 , 2 ] ----->
True
Occupied fields : [ 5 , 1 ] [ 4 , 1 ][ 3 , 1 ][ 5 , 2 ] ----->
True
Occupied fields : [ 5 , 2 ] [ 6 , 2 ][ 7 , 2 ][ 5 , 3 ] ----->
True

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Occupied fields : [ 5 , 2 ] [ 4 , 2 ] [ 3 , 2 ] [ 5 , 3 ] ----->
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Occupied fields : [ 5 , 3 ] [ 6 , 3 ] [ 7 , 3 ] [ 5 , 4 ] ----->
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Occupied fields : [ 5 , 3 ] [ 4 , 3 ] [ 3 , 3 ] [ 5 , 4 ] ----->
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Occupied fields : [ 5 , 4 ] [ 6 , 4 ] [ 7 , 4 ] [ 5 , 5 ] ----->
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Occupied fields : [ 5 , 4 ] [ 4 , 4 ] [ 3 , 4 ] [ 5 , 5 ] ----->
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Occupied fields : [ 5 , 5 ] [ 6 , 5 ] [ 7 , 5 ] [ 5 , 6 ] ----->
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Occupied fields : [ 5 , 5 ] [ 4 , 5 ] [ 3 , 5 ] [ 5 , 6 ] ----->
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Occupied fields : [ 5 , 6 ] [ 6 , 6 ] [ 7 , 6 ] [ 5 , 7 ] ----->
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Occupied fields : [ 5 , 14 ] [ 6 , 14 ] [ 7 , 14 ] [ 5 , 15 ] ----->
True
Occupied fields : [ 5 , 14 ] [ 4 , 14 ] [ 3 , 14 ] [ 5 , 15 ] ----->
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Occupied fields : [ 5 , 15 ] [ 6 , 15 ] [ 7 , 15 ] [ 5 , 16 ] ----->
True
Occupied fields : [ 5 , 15 ] [ 4 , 15 ] [ 3 , 15 ] [ 5 , 16 ] ----->
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Occupied fields : [ 5 , 16 ] [ 6 , 16 ] [ 7 , 16 ] [ 5 , 17 ] ----->
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Occupied fields : [ 5 , 16 ] [ 4 , 16 ] [ 3 , 16 ] [ 5 , 17 ] ----->
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Occupied fields : [ 5 , 18 ] [ 4 , 18 ] [ 3 , 18 ] [ 5 , 19 ] ----->
True
Occupied fields : [ 5 , 19 ] [ 6 , 19 ] [ 7 , 19 ] [ 5 , 18 ] ----->
True
Occupied fields : [ 5 , 19 ] [ 4 , 19 ] [ 3 , 19 ] [ 5 , 18 ] ----->
True
Occupied fields : [ 6 , 0 ] [ 7 , 0 ] [ 8 , 0 ] [ 6 , 1 ] ----->
True
Occupied fields : [ 6 , 0 ] [ 5 , 0 ] [ 4 , 0 ] [ 6 , 1 ] ----->
True
Occupied fields : [ 6 , 1 ] [ 7 , 1 ] [ 8 , 1 ] [ 6 , 2 ] ----->
True
Occupied fields : [ 6 , 1 ] [ 5 , 1 ] [ 4 , 1 ] [ 6 , 2 ] ----->
True
Occupied fields : [ 6 , 2 ] [ 7 , 2 ] [ 8 , 2 ] [ 6 , 3 ] ----->
True
Occupied fields : [ 6 , 2 ] [ 5 , 2 ] [ 4 , 2 ] [ 6 , 3 ] ----->
True
Occupied fields : [ 6 , 3 ] [ 7 , 3 ] [ 8 , 3 ] [ 6 , 4 ] ----->
True
Occupied fields : [ 6 , 3 ] [ 5 , 3 ] [ 4 , 3 ] [ 6 , 4 ] ----->
True
Occupied fields : [ 6 , 4 ] [ 7 , 4 ] [ 8 , 4 ] [ 6 , 5 ] ----->
True
Occupied fields : [ 6 , 4 ] [ 5 , 4 ] [ 4 , 4 ] [ 6 , 5 ] ----->
True
Occupied fields : [ 6 , 5 ] [ 7 , 5 ] [ 8 , 5 ] [ 6 , 6 ] ----->
True
Occupied fields : [ 6 , 5 ] [ 5 , 5 ] [ 4 , 5 ] [ 6 , 6 ] ----->
True
Occupied fields : [ 6 , 6 ] [ 7 , 6 ] [ 8 , 6 ] [ 6 , 7 ] ----->
True
Occupied fields : [ 6 , 6 ] [ 5 , 6 ] [ 4 , 6 ] [ 6 , 7 ] ----->
True
Occupied fields : [ 6 , 7 ] [ 7 , 7 ] [ 8 , 7 ] [ 6 , 8 ] ----->
True

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Occupied fields : [ 6 , 7 ] [ 5 , 7 ] [ 4 , 7 ] [ 6 , 8 ] ----->
True
Occupied fields : [ 6 , 8 ] [ 7 , 8 ] [ 8 , 8 ] [ 6 , 9 ] ----->
True
Occupied fields : [ 6 , 8 ] [ 5 , 8 ] [ 4 , 8 ] [ 6 , 9 ] ----->
True
Occupied fields : [ 6 , 9 ] [ 7 , 9 ] [ 8 , 9 ] [ 6 , 10 ] ----->
True
Occupied fields : [ 6 , 9 ] [ 5 , 9 ] [ 4 , 9 ] [ 6 , 10 ] ----->
True
Occupied fields : [ 6 , 10 ] [ 7 , 10 ] [ 8 , 10 ] [ 6 , 11 ] ----->
True
Occupied fields : [ 6 , 10 ] [ 5 , 10 ] [ 4 , 10 ] [ 6 , 11 ] ----->
True
Occupied fields : [ 6 , 11 ] [ 7 , 11 ] [ 8 , 11 ] [ 6 , 12 ] ----->
True
Occupied fields : [ 6 , 11 ] [ 5 , 11 ] [ 4 , 11 ] [ 6 , 12 ] ----->
True
Occupied fields : [ 6 , 12 ] [ 7 , 12 ] [ 8 , 12 ] [ 6 , 13 ] ----->
True
Occupied fields : [ 6 , 12 ] [ 5 , 12 ] [ 4 , 12 ] [ 6 , 13 ] ----->
True
Occupied fields : [ 6 , 13 ] [ 7 , 13 ] [ 8 , 13 ] [ 6 , 14 ] ----->
True
Occupied fields : [ 6 , 13 ] [ 5 , 13 ] [ 4 , 13 ] [ 6 , 14 ] ----->
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Occupied fields : [ 6 , 14 ] [ 7 , 14 ] [ 8 , 14 ] [ 6 , 15 ] ----->
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Occupied fields : [ 6 , 14 ] [ 5 , 14 ] [ 4 , 14 ] [ 6 , 15 ] ----->
True
Occupied fields : [ 6 , 15 ] [ 7 , 15 ] [ 8 , 15 ] [ 6 , 16 ] ----->
True
Occupied fields : [ 6 , 15 ] [ 5 , 15 ] [ 4 , 15 ] [ 6 , 16 ] ----->
True
Occupied fields : [ 6 , 16 ] [ 7 , 16 ] [ 8 , 16 ] [ 6 , 17 ] ----->
True
Occupied fields : [ 6 , 16 ] [ 5 , 16 ] [ 4 , 16 ] [ 6 , 17 ] ----->
True
Occupied fields : [ 6 , 17 ] [ 7 , 17 ] [ 8 , 17 ] [ 6 , 18 ] ----->
True
Occupied fields : [ 6 , 17 ] [ 5 , 17 ] [ 4 , 17 ] [ 6 , 18 ] ----->
True
Occupied fields : [ 6 , 18 ] [ 7 , 18 ] [ 8 , 18 ] [ 6 , 19 ] ----->
True
Occupied fields : [ 6 , 18 ] [ 5 , 18 ] [ 4 , 18 ] [ 6 , 19 ] ----->
True
Occupied fields : [ 6 , 19 ] [ 7 , 19 ] [ 8 , 19 ] [ 6 , 18 ] ----->
True
Occupied fields : [ 6 , 19 ] [ 5 , 19 ] [ 4 , 19 ] [ 6 , 18 ] ----->
True

```

```

Occupied fields : [ 7 , 0 ] [ 8 , 0 ] [ 9 , 0 ] [ 7 , 1 ] ----->
True
Occupied fields : [ 7 , 0 ] [ 6 , 0 ] [ 5 , 0 ] [ 7 , 1 ] ----->
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Occupied fields : [ 7 , 1 ] [ 8 , 1 ] [ 9 , 1 ] [ 7 , 2 ] ----->
True
Occupied fields : [ 7 , 1 ] [ 6 , 1 ] [ 5 , 1 ] [ 7 , 2 ] ----->
True
Occupied fields : [ 7 , 2 ] [ 8 , 2 ] [ 9 , 2 ] [ 7 , 3 ] ----->
True
Occupied fields : [ 7 , 2 ] [ 6 , 2 ] [ 5 , 2 ] [ 7 , 3 ] ----->
True
Occupied fields : [ 7 , 3 ] [ 8 , 3 ] [ 9 , 3 ] [ 7 , 4 ] ----->
True
Occupied fields : [ 7 , 3 ] [ 6 , 3 ] [ 5 , 3 ] [ 7 , 4 ] ----->
True
Occupied fields : [ 7 , 4 ] [ 8 , 4 ] [ 9 , 4 ] [ 7 , 5 ] ----->
True
Occupied fields : [ 7 , 4 ] [ 6 , 4 ] [ 5 , 4 ] [ 7 , 5 ] ----->
True
Occupied fields : [ 7 , 5 ] [ 8 , 5 ] [ 9 , 5 ] [ 7 , 6 ] ----->
True
Occupied fields : [ 7 , 5 ] [ 6 , 5 ] [ 5 , 5 ] [ 7 , 6 ] ----->
True
Occupied fields : [ 7 , 6 ] [ 8 , 6 ] [ 9 , 6 ] [ 7 , 7 ] ----->
True
Occupied fields : [ 7 , 6 ] [ 6 , 6 ] [ 5 , 6 ] [ 7 , 7 ] ----->
True
Occupied fields : [ 7 , 7 ] [ 8 , 7 ] [ 9 , 7 ] [ 7 , 8 ] ----->
True
Occupied fields : [ 7 , 7 ] [ 6 , 7 ] [ 5 , 7 ] [ 7 , 8 ] ----->
True
Occupied fields : [ 7 , 8 ] [ 8 , 8 ] [ 9 , 8 ] [ 7 , 9 ] ----->
True
Occupied fields : [ 7 , 8 ] [ 6 , 8 ] [ 5 , 8 ] [ 7 , 9 ] ----->
True
Occupied fields : [ 7 , 9 ] [ 8 , 9 ] [ 9 , 9 ] [ 7 , 10 ] ----->
True
Occupied fields : [ 7 , 9 ] [ 6 , 9 ] [ 5 , 9 ] [ 7 , 10 ] ----->
True
Occupied fields : [ 7 , 10 ] [ 8 , 10 ] [ 9 , 10 ] [ 7 , 11 ] ----->
True
Occupied fields : [ 7 , 10 ] [ 6 , 10 ] [ 5 , 10 ] [ 7 , 11 ] ----->
True
Occupied fields : [ 7 , 11 ] [ 8 , 11 ] [ 9 , 11 ] [ 7 , 12 ] ----->
True
Occupied fields : [ 7 , 11 ] [ 6 , 11 ] [ 5 , 11 ] [ 7 , 12 ] ----->
True
Occupied fields : [ 7 , 12 ] [ 8 , 12 ] [ 9 , 12 ] [ 7 , 13 ] ----->
True

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```

Occupied fields : [ 7 , 12 ] [ 6 , 12 ] [ 5 , 12 ] [ 7 , 13 ] ----->
True
Occupied fields : [ 7 , 13 ] [ 8 , 13 ] [ 9 , 13 ] [ 7 , 14 ] ----->
True
Occupied fields : [ 7 , 13 ] [ 6 , 13 ] [ 5 , 13 ] [ 7 , 14 ] ----->
True
Occupied fields : [ 7 , 14 ] [ 8 , 14 ] [ 9 , 14 ] [ 7 , 15 ] ----->
True
Occupied fields : [ 7 , 14 ] [ 6 , 14 ] [ 5 , 14 ] [ 7 , 15 ] ----->
True
Occupied fields : [ 7 , 15 ] [ 8 , 15 ] [ 9 , 15 ] [ 7 , 16 ] ----->
True
Occupied fields : [ 7 , 15 ] [ 6 , 15 ] [ 5 , 15 ] [ 7 , 16 ] ----->
True
Occupied fields : [ 7 , 16 ] [ 8 , 16 ] [ 9 , 16 ] [ 7 , 17 ] ----->
True
Occupied fields : [ 7 , 16 ] [ 6 , 16 ] [ 5 , 16 ] [ 7 , 17 ] ----->
True
Occupied fields : [ 7 , 17 ] [ 8 , 17 ] [ 9 , 17 ] [ 7 , 18 ] ----->
True
Occupied fields : [ 7 , 17 ] [ 6 , 17 ] [ 5 , 17 ] [ 7 , 18 ] ----->
True
Occupied fields : [ 7 , 18 ] [ 8 , 18 ] [ 9 , 18 ] [ 7 , 19 ] ----->
True
Occupied fields : [ 7 , 18 ] [ 6 , 18 ] [ 5 , 18 ] [ 7 , 19 ] ----->
True
Occupied fields : [ 7 , 19 ] [ 8 , 19 ] [ 9 , 19 ] [ 7 , 18 ] ----->
True
Occupied fields : [ 7 , 19 ] [ 6 , 19 ] [ 5 , 19 ] [ 7 , 18 ] ----->
True
Occupied fields : [ 8 , 0 ] [ 9 , 0 ] [ 10 , 0 ] [ 8 , 1 ] ----->
True
Occupied fields : [ 8 , 0 ] [ 7 , 0 ] [ 6 , 0 ] [ 8 , 1 ] ----->
True
Occupied fields : [ 8 , 1 ] [ 9 , 1 ] [ 10 , 1 ] [ 8 , 2 ] ----->
True
Occupied fields : [ 8 , 1 ] [ 7 , 1 ] [ 6 , 1 ] [ 8 , 2 ] ----->
True
Occupied fields : [ 8 , 2 ] [ 9 , 2 ] [ 10 , 2 ] [ 8 , 3 ] ----->
True
Occupied fields : [ 8 , 2 ] [ 7 , 2 ] [ 6 , 2 ] [ 8 , 3 ] ----->
True
Occupied fields : [ 8 , 3 ] [ 9 , 3 ] [ 10 , 3 ] [ 8 , 4 ] ----->
True
Occupied fields : [ 8 , 3 ] [ 7 , 3 ] [ 6 , 3 ] [ 8 , 4 ] ----->
True
Occupied fields : [ 8 , 4 ] [ 9 , 4 ] [ 10 , 4 ] [ 8 , 5 ] ----->
True
Occupied fields : [ 8 , 4 ] [ 7 , 4 ] [ 6 , 4 ] [ 8 , 5 ] ----->
True

```

```

Occupied fields : [ 8 , 5 ] [ 9 , 5 ] [ 10 , 5 ] [ 8 , 6 ] ----->
True
Occupied fields : [ 8 , 5 ] [ 7 , 5 ] [ 6 , 5 ] [ 8 , 6 ] ----->
True
Occupied fields : [ 8 , 6 ] [ 9 , 6 ] [ 10 , 6 ] [ 8 , 7 ] ----->
True
Occupied fields : [ 8 , 6 ] [ 7 , 6 ] [ 6 , 6 ] [ 8 , 7 ] ----->
True
Occupied fields : [ 8 , 7 ] [ 9 , 7 ] [ 10 , 7 ] [ 8 , 8 ] ----->
True
Occupied fields : [ 8 , 7 ] [ 7 , 7 ] [ 6 , 7 ] [ 8 , 8 ] ----->
True
Occupied fields : [ 8 , 8 ] [ 9 , 8 ] [ 10 , 8 ] [ 8 , 9 ] ----->
True
Occupied fields : [ 8 , 8 ] [ 7 , 8 ] [ 6 , 8 ] [ 8 , 9 ] ----->
True
Occupied fields : [ 8 , 9 ] [ 9 , 9 ] [ 10 , 9 ] [ 8 , 10 ] ----->
True
Occupied fields : [ 8 , 9 ] [ 7 , 9 ] [ 6 , 9 ] [ 8 , 10 ] ----->
True
Occupied fields : [ 8 , 10 ] [ 9 , 10 ] [ 10 , 10 ] [ 8 , 11 ] -----
> True
Occupied fields : [ 8 , 10 ] [ 7 , 10 ] [ 6 , 10 ] [ 8 , 11 ] ----->
True
Occupied fields : [ 8 , 11 ] [ 9 , 11 ] [ 10 , 11 ] [ 8 , 12 ] -----
> True
Occupied fields : [ 8 , 11 ] [ 7 , 11 ] [ 6 , 11 ] [ 8 , 12 ] ----->
True
Occupied fields : [ 8 , 12 ] [ 9 , 12 ] [ 10 , 12 ] [ 8 , 13 ] -----
> True
Occupied fields : [ 8 , 12 ] [ 7 , 12 ] [ 6 , 12 ] [ 8 , 13 ] ----->
True
Occupied fields : [ 8 , 13 ] [ 9 , 13 ] [ 10 , 13 ] [ 8 , 14 ] -----
> True
Occupied fields : [ 8 , 13 ] [ 7 , 13 ] [ 6 , 13 ] [ 8 , 14 ] ----->
True
Occupied fields : [ 8 , 14 ] [ 9 , 14 ] [ 10 , 14 ] [ 8 , 15 ] -----
> True
Occupied fields : [ 8 , 14 ] [ 7 , 14 ] [ 6 , 14 ] [ 8 , 15 ] ----->
True
Occupied fields : [ 8 , 15 ] [ 9 , 15 ] [ 10 , 15 ] [ 8 , 16 ] -----
> True
Occupied fields : [ 8 , 15 ] [ 7 , 15 ] [ 6 , 15 ] [ 8 , 16 ] ----->
True
Occupied fields : [ 8 , 16 ] [ 9 , 16 ] [ 10 , 16 ] [ 8 , 17 ] -----
> True
Occupied fields : [ 8 , 16 ] [ 7 , 16 ] [ 6 , 16 ] [ 8 , 17 ] ----->
True
Occupied fields : [ 8 , 17 ] [ 9 , 17 ] [ 10 , 17 ] [ 8 , 18 ] -----
> True

```

```

Occupied fields : [ 8 , 17 ] [ 7 , 17 ] [ 6 , 17 ] [ 8 , 18 ] ----->
True
Occupied fields : [ 8 , 18 ] [ 9 , 18 ] [ 10 , 18 ] [ 8 , 19 ] -----
> True
Occupied fields : [ 8 , 18 ] [ 7 , 18 ] [ 6 , 18 ] [ 8 , 19 ] ----->
True
Occupied fields : [ 8 , 19 ] [ 9 , 19 ] [ 10 , 19 ] [ 8 , 18 ] -----
> True
Occupied fields : [ 8 , 19 ] [ 7 , 19 ] [ 6 , 19 ] [ 8 , 18 ] ----->
True
Occupied fields : [ 9 , 0 ] [ 10 , 0 ] [ 11 , 0 ] [ 9 , 1 ] ----->
True
Occupied fields : [ 9 , 0 ] [ 8 , 0 ] [ 7 , 0 ] [ 9 , 1 ] ----->
True
Occupied fields : [ 9 , 1 ] [ 10 , 1 ] [ 11 , 1 ] [ 9 , 2 ] ----->
True
Occupied fields : [ 9 , 1 ] [ 8 , 1 ] [ 7 , 1 ] [ 9 , 2 ] ----->
True
Occupied fields : [ 9 , 2 ] [ 10 , 2 ] [ 11 , 2 ] [ 9 , 3 ] ----->
True
Occupied fields : [ 9 , 2 ] [ 8 , 2 ] [ 7 , 2 ] [ 9 , 3 ] ----->
True
Occupied fields : [ 9 , 3 ] [ 10 , 3 ] [ 11 , 3 ] [ 9 , 4 ] ----->
True
Occupied fields : [ 9 , 3 ] [ 8 , 3 ] [ 7 , 3 ] [ 9 , 4 ] ----->
True
Occupied fields : [ 9 , 4 ] [ 10 , 4 ] [ 11 , 4 ] [ 9 , 5 ] ----->
True
Occupied fields : [ 9 , 4 ] [ 8 , 4 ] [ 7 , 4 ] [ 9 , 5 ] ----->
True
Occupied fields : [ 9 , 5 ] [ 10 , 5 ] [ 11 , 5 ] [ 9 , 6 ] ----->
True
Occupied fields : [ 9 , 5 ] [ 8 , 5 ] [ 7 , 5 ] [ 9 , 6 ] ----->
True
Occupied fields : [ 9 , 6 ] [ 10 , 6 ] [ 11 , 6 ] [ 9 , 7 ] ----->
True
Occupied fields : [ 9 , 6 ] [ 8 , 6 ] [ 7 , 6 ] [ 9 , 7 ] ----->
True
Occupied fields : [ 9 , 7 ] [ 10 , 7 ] [ 11 , 7 ] [ 9 , 8 ] ----->
True
Occupied fields : [ 9 , 7 ] [ 8 , 7 ] [ 7 , 7 ] [ 9 , 8 ] ----->
True
Occupied fields : [ 9 , 8 ] [ 10 , 8 ] [ 11 , 8 ] [ 9 , 9 ] ----->
True
Occupied fields : [ 9 , 8 ] [ 8 , 8 ] [ 7 , 8 ] [ 9 , 9 ] ----->
True
Occupied fields : [ 9 , 9 ] [ 10 , 9 ] [ 11 , 9 ] [ 9 , 10 ] ----->
True
Occupied fields : [ 9 , 9 ] [ 8 , 9 ] [ 7 , 9 ] [ 9 , 10 ] ----->
True

```



```

Occupied fields : [ 9 , 10 ] [ 10 , 10 ][ 11 , 10 ][ 9 , 11 ]
-----> True
Occupied fields : [ 9 , 10 ] [ 8 , 10 ][ 7 , 10 ][ 9 , 11 ] ----->
True
Occupied fields : [ 9 , 11 ] [ 10 , 11 ][ 11 , 11 ][ 9 , 12 ]
-----> True
Occupied fields : [ 9 , 11 ] [ 8 , 11 ][ 7 , 11 ][ 9 , 12 ] ----->
True
Occupied fields : [ 9 , 12 ] [ 10 , 12 ][ 11 , 12 ][ 9 , 13 ]
-----> True
Occupied fields : [ 9 , 12 ] [ 8 , 12 ][ 7 , 12 ][ 9 , 13 ] ----->
True
Occupied fields : [ 9 , 13 ] [ 10 , 13 ][ 11 , 13 ][ 9 , 14 ]
-----> True
Occupied fields : [ 9 , 13 ] [ 8 , 13 ][ 7 , 13 ][ 9 , 14 ] ----->
True
Occupied fields : [ 9 , 14 ] [ 10 , 14 ][ 11 , 14 ][ 9 , 15 ]
-----> True
Occupied fields : [ 9 , 14 ] [ 8 , 14 ][ 7 , 14 ][ 9 , 15 ] ----->
True
Occupied fields : [ 9 , 15 ] [ 10 , 15 ][ 11 , 15 ][ 9 , 16 ]
-----> True
Occupied fields : [ 9 , 15 ] [ 8 , 15 ][ 7 , 15 ][ 9 , 16 ] ----->
True
Occupied fields : [ 9 , 16 ] [ 10 , 16 ][ 11 , 16 ][ 9 , 17 ]
-----> True
Occupied fields : [ 9 , 16 ] [ 8 , 16 ][ 7 , 16 ][ 9 , 17 ] ----->
True
Occupied fields : [ 9 , 17 ] [ 10 , 17 ][ 11 , 17 ][ 9 , 18 ]
-----> True
Occupied fields : [ 9 , 17 ] [ 8 , 17 ][ 7 , 17 ][ 9 , 18 ] ----->
True
Occupied fields : [ 9 , 18 ] [ 10 , 18 ][ 11 , 18 ][ 9 , 19 ]
-----> True
Occupied fields : [ 9 , 18 ] [ 8 , 18 ][ 7 , 18 ][ 9 , 19 ] ----->
True
Occupied fields : [ 9 , 19 ] [ 10 , 19 ][ 11 , 19 ][ 9 , 18 ]
-----> True
Occupied fields : [ 9 , 19 ] [ 8 , 19 ][ 7 , 19 ][ 9 , 18 ] ----->
True
Occupied fields : [ 10 , 0 ] [ 11 , 0 ][ 12 , 0 ][ 10 , 1 ] ----->
True
Occupied fields : [ 10 , 0 ] [ 9 , 0 ][ 8 , 0 ][ 10 , 1 ] ----->
True
Occupied fields : [ 10 , 1 ] [ 11 , 1 ][ 12 , 1 ][ 10 , 2 ] ----->
True
Occupied fields : [ 10 , 1 ] [ 9 , 1 ][ 8 , 1 ][ 10 , 2 ] ----->
True
Occupied fields : [ 10 , 2 ] [ 11 , 2 ][ 12 , 2 ][ 10 , 3 ] ----->
True

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```

Occupied fields : [ 10 , 2 ] [ 9 , 2 ][ 8 , 2 ][ 10 , 3 ] ----->
True
Occupied fields : [ 10 , 3 ] [ 11 , 3 ][ 12 , 3 ][ 10 , 4 ] ----->
True
Occupied fields : [ 10 , 3 ] [ 9 , 3 ][ 8 , 3 ][ 10 , 4 ] ----->
True
Occupied fields : [ 10 , 4 ] [ 11 , 4 ][ 12 , 4 ][ 10 , 5 ] ----->
True
Occupied fields : [ 10 , 4 ] [ 9 , 4 ][ 8 , 4 ][ 10 , 5 ] ----->
True
Occupied fields : [ 10 , 5 ] [ 11 , 5 ][ 12 , 5 ][ 10 , 6 ] ----->
True
Occupied fields : [ 10 , 5 ] [ 9 , 5 ][ 8 , 5 ][ 10 , 6 ] ----->
True
Occupied fields : [ 10 , 6 ] [ 11 , 6 ][ 12 , 6 ][ 10 , 7 ] ----->
True
Occupied fields : [ 10 , 6 ] [ 9 , 6 ][ 8 , 6 ][ 10 , 7 ] ----->
True
Occupied fields : [ 10 , 7 ] [ 11 , 7 ][ 12 , 7 ][ 10 , 8 ] ----->
True
Occupied fields : [ 10 , 7 ] [ 9 , 7 ][ 8 , 7 ][ 10 , 8 ] ----->
True
Occupied fields : [ 10 , 8 ] [ 11 , 8 ][ 12 , 8 ][ 10 , 9 ] ----->
True
Occupied fields : [ 10 , 8 ] [ 9 , 8 ][ 8 , 8 ][ 10 , 9 ] ----->
True
Occupied fields : [ 10 , 9 ] [ 11 , 9 ][ 12 , 9 ][ 10 , 10 ] -----
> True
Occupied fields : [ 10 , 9 ] [ 9 , 9 ][ 8 , 9 ][ 10 , 10 ] ----->
True
Occupied fields : [ 10 , 10 ] [ 11 , 10 ][ 12 , 10 ][ 10 , 11 ]
-----> True
Occupied fields : [ 10 , 10 ] [ 9 , 10 ][ 8 , 10 ][ 10 , 11 ]
-----> True
Occupied fields : [ 10 , 11 ] [ 11 , 11 ][ 12 , 11 ][ 10 , 12 ]
-----> True
Occupied fields : [ 10 , 11 ] [ 9 , 11 ][ 8 , 11 ][ 10 , 12 ]
-----> True
Occupied fields : [ 10 , 12 ] [ 11 , 12 ][ 12 , 12 ][ 10 , 13 ]
-----> True
Occupied fields : [ 10 , 12 ] [ 9 , 12 ][ 8 , 12 ][ 10 , 13 ]
-----> True
Occupied fields : [ 10 , 13 ] [ 11 , 13 ][ 12 , 13 ][ 10 , 14 ]
-----> True
Occupied fields : [ 10 , 13 ] [ 9 , 13 ][ 8 , 13 ][ 10 , 14 ]
-----> True
Occupied fields : [ 10 , 14 ] [ 11 , 14 ][ 12 , 14 ][ 10 , 15 ]
-----> True
Occupied fields : [ 10 , 14 ] [ 9 , 14 ][ 8 , 14 ][ 10 , 15 ]
-----> True

```

```

Occupied fields : [ 10 , 15 ] [ 11 , 15 ][ 12 , 15 ][ 10 , 16 ]
-----> True
Occupied fields : [ 10 , 15 ] [ 9 , 15 ][ 8 , 15 ][ 10 , 16 ]
-----> True
Occupied fields : [ 10 , 16 ] [ 11 , 16 ][ 12 , 16 ][ 10 , 17 ]
-----> True
Occupied fields : [ 10 , 16 ] [ 9 , 16 ][ 8 , 16 ][ 10 , 17 ]
-----> True
Occupied fields : [ 10 , 17 ] [ 11 , 17 ][ 12 , 17 ][ 10 , 18 ]
-----> True
Occupied fields : [ 10 , 17 ] [ 9 , 17 ][ 8 , 17 ][ 10 , 18 ]
-----> True
Occupied fields : [ 10 , 18 ] [ 11 , 18 ][ 12 , 18 ][ 10 , 19 ]
-----> True
Occupied fields : [ 10 , 18 ] [ 9 , 18 ][ 8 , 18 ][ 10 , 19 ]
-----> True
Occupied fields : [ 10 , 19 ] [ 11 , 19 ][ 12 , 19 ][ 10 , 18 ]
-----> True
Occupied fields : [ 10 , 19 ] [ 9 , 19 ][ 8 , 19 ][ 10 , 18 ]
-----> True
Occupied fields : [ 11 , 0 ] [ 12 , 0 ][ 13 , 0 ][ 11 , 1 ] ----->
True
Occupied fields : [ 11 , 0 ] [ 10 , 0 ][ 9 , 0 ][ 11 , 1 ] ----->
True
Occupied fields : [ 11 , 1 ] [ 12 , 1 ][ 13 , 1 ][ 11 , 2 ] ----->
True
Occupied fields : [ 11 , 1 ] [ 10 , 1 ][ 9 , 1 ][ 11 , 2 ] ----->
True
Occupied fields : [ 11 , 2 ] [ 12 , 2 ][ 13 , 2 ][ 11 , 3 ] ----->
True
Occupied fields : [ 11 , 2 ] [ 10 , 2 ][ 9 , 2 ][ 11 , 3 ] ----->
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Occupied fields : [ 11 , 3 ] [ 12 , 3 ][ 13 , 3 ][ 11 , 4 ] ----->
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Occupied fields : [ 11 , 3 ] [ 10 , 3 ][ 9 , 3 ][ 11 , 4 ] ----->
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Occupied fields : [ 11 , 4 ] [ 12 , 4 ][ 13 , 4 ][ 11 , 5 ] ----->
True
Occupied fields : [ 11 , 4 ] [ 10 , 4 ][ 9 , 4 ][ 11 , 5 ] ----->
True
Occupied fields : [ 11 , 5 ] [ 12 , 5 ][ 13 , 5 ][ 11 , 6 ] ----->
True
Occupied fields : [ 11 , 5 ] [ 10 , 5 ][ 9 , 5 ][ 11 , 6 ] ----->
True
Occupied fields : [ 11 , 6 ] [ 12 , 6 ][ 13 , 6 ][ 11 , 7 ] ----->
True
Occupied fields : [ 11 , 6 ] [ 10 , 6 ][ 9 , 6 ][ 11 , 7 ] ----->
True
Occupied fields : [ 11 , 7 ] [ 12 , 7 ][ 13 , 7 ][ 11 , 8 ] ----->
True

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```

Occupied fields : [ 11 , 7 ] [ 10 , 7 ][ 9 , 7 ][ 11 , 8 ] ----->
True
Occupied fields : [ 11 , 8 ] [ 12 , 8 ][ 13 , 8 ][ 11 , 9 ] ----->
True
Occupied fields : [ 11 , 8 ] [ 10 , 8 ][ 9 , 8 ][ 11 , 9 ] ----->
True
Occupied fields : [ 11 , 9 ] [ 12 , 9 ][ 13 , 9 ][ 11 , 10 ] -----
> True
Occupied fields : [ 11 , 9 ] [ 10 , 9 ][ 9 , 9 ][ 11 , 10 ] ----->
True
Occupied fields : [ 11 , 10 ] [ 12 , 10 ][ 13 , 10 ][ 11 , 11 ]
-----> True
Occupied fields : [ 11 , 10 ] [ 10 , 10 ][ 9 , 10 ][ 11 , 11 ]
-----> True
Occupied fields : [ 11 , 11 ] [ 12 , 11 ][ 13 , 11 ][ 11 , 12 ]
-----> True
Occupied fields : [ 11 , 11 ] [ 10 , 11 ][ 9 , 11 ][ 11 , 12 ]
-----> True
Occupied fields : [ 11 , 12 ] [ 12 , 12 ][ 13 , 12 ][ 11 , 13 ]
-----> True
Occupied fields : [ 11 , 12 ] [ 10 , 12 ][ 9 , 12 ][ 11 , 13 ]
-----> True
Occupied fields : [ 11 , 13 ] [ 12 , 13 ][ 13 , 13 ][ 11 , 14 ]
-----> True
Occupied fields : [ 11 , 13 ] [ 10 , 13 ][ 9 , 13 ][ 11 , 14 ]
-----> True
Occupied fields : [ 11 , 14 ] [ 12 , 14 ][ 13 , 14 ][ 11 , 15 ]
-----> True
Occupied fields : [ 11 , 14 ] [ 10 , 14 ][ 9 , 14 ][ 11 , 15 ]
-----> True
Occupied fields : [ 11 , 15 ] [ 12 , 15 ][ 13 , 15 ][ 11 , 16 ]
-----> True
Occupied fields : [ 11 , 15 ] [ 10 , 15 ][ 9 , 15 ][ 11 , 16 ]
-----> True
Occupied fields : [ 11 , 16 ] [ 12 , 16 ][ 13 , 16 ][ 11 , 17 ]
-----> True
Occupied fields : [ 11 , 16 ] [ 10 , 16 ][ 9 , 16 ][ 11 , 17 ]
-----> True
Occupied fields : [ 11 , 17 ] [ 12 , 17 ][ 13 , 17 ][ 11 , 18 ]
-----> True
Occupied fields : [ 11 , 17 ] [ 10 , 17 ][ 9 , 17 ][ 11 , 18 ]
-----> True
Occupied fields : [ 11 , 18 ] [ 12 , 18 ][ 13 , 18 ][ 11 , 19 ]
-----> True
Occupied fields : [ 11 , 18 ] [ 10 , 18 ][ 9 , 18 ][ 11 , 19 ]
-----> True
Occupied fields : [ 11 , 19 ] [ 12 , 19 ][ 13 , 19 ][ 11 , 18 ]
-----> True
Occupied fields : [ 11 , 19 ] [ 10 , 19 ][ 9 , 19 ][ 11 , 18 ]
-----> True

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```

Occupied fields : [ 12 , 0 ] [ 13 , 0 ][ 14 , 0 ][ 12 , 1 ] ----->
True
Occupied fields : [ 12 , 0 ] [ 11 , 0 ][ 10 , 0 ][ 12 , 1 ] ----->
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Occupied fields : [ 12 , 1 ] [ 13 , 1 ][ 14 , 1 ][ 12 , 2 ] ----->
True
Occupied fields : [ 12 , 1 ] [ 11 , 1 ][ 10 , 1 ][ 12 , 2 ] ----->
True
Occupied fields : [ 12 , 2 ] [ 13 , 2 ][ 14 , 2 ][ 12 , 3 ] ----->
True
Occupied fields : [ 12 , 2 ] [ 11 , 2 ][ 10 , 2 ][ 12 , 3 ] ----->
True
Occupied fields : [ 12 , 3 ] [ 13 , 3 ][ 14 , 3 ][ 12 , 4 ] ----->
True
Occupied fields : [ 12 , 3 ] [ 11 , 3 ][ 10 , 3 ][ 12 , 4 ] ----->
True
Occupied fields : [ 12 , 4 ] [ 13 , 4 ][ 14 , 4 ][ 12 , 5 ] ----->
True
Occupied fields : [ 12 , 4 ] [ 11 , 4 ][ 10 , 4 ][ 12 , 5 ] ----->
True
Occupied fields : [ 12 , 5 ] [ 13 , 5 ][ 14 , 5 ][ 12 , 6 ] ----->
True
Occupied fields : [ 12 , 5 ] [ 11 , 5 ][ 10 , 5 ][ 12 , 6 ] ----->
True
Occupied fields : [ 12 , 6 ] [ 13 , 6 ][ 14 , 6 ][ 12 , 7 ] ----->
True
Occupied fields : [ 12 , 6 ] [ 11 , 6 ][ 10 , 6 ][ 12 , 7 ] ----->
True
Occupied fields : [ 12 , 7 ] [ 13 , 7 ][ 14 , 7 ][ 12 , 8 ] ----->
True
Occupied fields : [ 12 , 7 ] [ 11 , 7 ][ 10 , 7 ][ 12 , 8 ] ----->
True
Occupied fields : [ 12 , 8 ] [ 13 , 8 ][ 14 , 8 ][ 12 , 9 ] ----->
True
Occupied fields : [ 12 , 8 ] [ 11 , 8 ][ 10 , 8 ][ 12 , 9 ] ----->
True
Occupied fields : [ 12 , 9 ] [ 13 , 9 ][ 14 , 9 ][ 12 , 10 ] -----
> True
Occupied fields : [ 12 , 9 ] [ 11 , 9 ][ 10 , 9 ][ 12 , 10 ] -----
> True
Occupied fields : [ 12 , 10 ] [ 13 , 10 ][ 14 , 10 ][ 12 , 11 ]
-----> True
Occupied fields : [ 12 , 10 ] [ 11 , 10 ][ 10 , 10 ][ 12 , 11 ]
-----> True
Occupied fields : [ 12 , 11 ] [ 13 , 11 ][ 14 , 11 ][ 12 , 12 ]
-----> True
Occupied fields : [ 12 , 11 ] [ 11 , 11 ][ 10 , 11 ][ 12 , 12 ]
-----> True
Occupied fields : [ 12 , 12 ] [ 13 , 12 ][ 14 , 12 ][ 12 , 13 ]
-----> True

```

```

Occupied fields : [ 12 , 12 ] [ 11 , 12 ][ 10 , 12 ][ 12 , 13 ]
-----> True
Occupied fields : [ 12 , 13 ] [ 13 , 13 ][ 14 , 13 ][ 12 , 14 ]
-----> True
Occupied fields : [ 12 , 13 ] [ 11 , 13 ][ 10 , 13 ][ 12 , 14 ]
-----> True
Occupied fields : [ 12 , 14 ] [ 13 , 14 ][ 14 , 14 ][ 12 , 15 ]
-----> True
Occupied fields : [ 12 , 14 ] [ 11 , 14 ][ 10 , 14 ][ 12 , 15 ]
-----> True
Occupied fields : [ 12 , 15 ] [ 13 , 15 ][ 14 , 15 ][ 12 , 16 ]
-----> True
Occupied fields : [ 12 , 15 ] [ 11 , 15 ][ 10 , 15 ][ 12 , 16 ]
-----> True
Occupied fields : [ 12 , 16 ] [ 13 , 16 ][ 14 , 16 ][ 12 , 17 ]
-----> True
Occupied fields : [ 12 , 16 ] [ 11 , 16 ][ 10 , 16 ][ 12 , 17 ]
-----> True
Occupied fields : [ 12 , 17 ] [ 13 , 17 ][ 14 , 17 ][ 12 , 18 ]
-----> True
Occupied fields : [ 12 , 17 ] [ 11 , 17 ][ 10 , 17 ][ 12 , 18 ]
-----> True
Occupied fields : [ 12 , 18 ] [ 13 , 18 ][ 14 , 18 ][ 12 , 19 ]
-----> True
Occupied fields : [ 12 , 18 ] [ 11 , 18 ][ 10 , 18 ][ 12 , 19 ]
-----> True
Occupied fields : [ 12 , 19 ] [ 13 , 19 ][ 14 , 19 ][ 12 , 18 ]
-----> True
Occupied fields : [ 12 , 19 ] [ 11 , 19 ][ 10 , 19 ][ 12 , 18 ]
-----> True
Occupied fields : [ 13 , 0 ] [ 14 , 0 ][ 15 , 0 ][ 13 , 1 ] ----->
True
Occupied fields : [ 13 , 0 ] [ 12 , 0 ][ 11 , 0 ][ 13 , 1 ] ----->
True
Occupied fields : [ 13 , 1 ] [ 14 , 1 ][ 15 , 1 ][ 13 , 2 ] ----->
True
Occupied fields : [ 13 , 1 ] [ 12 , 1 ][ 11 , 1 ][ 13 , 2 ] ----->
True
Occupied fields : [ 13 , 2 ] [ 14 , 2 ][ 15 , 2 ][ 13 , 3 ] ----->
True
Occupied fields : [ 13 , 2 ] [ 12 , 2 ][ 11 , 2 ][ 13 , 3 ] ----->
True
Occupied fields : [ 13 , 3 ] [ 14 , 3 ][ 15 , 3 ][ 13 , 4 ] ----->
True
Occupied fields : [ 13 , 3 ] [ 12 , 3 ][ 11 , 3 ][ 13 , 4 ] ----->
True
Occupied fields : [ 13 , 4 ] [ 14 , 4 ][ 15 , 4 ][ 13 , 5 ] ----->
True
Occupied fields : [ 13 , 4 ] [ 12 , 4 ][ 11 , 4 ][ 13 , 5 ] ----->
True

```

```

Occupied fields : [ 13 , 5 ] [ 14 , 5 ][ 15 , 5 ][ 13 , 6 ] ----->
True
Occupied fields : [ 13 , 5 ] [ 12 , 5 ][ 11 , 5 ][ 13 , 6 ] ----->
True
Occupied fields : [ 13 , 6 ] [ 14 , 6 ][ 15 , 6 ][ 13 , 7 ] ----->
True
Occupied fields : [ 13 , 6 ] [ 12 , 6 ][ 11 , 6 ][ 13 , 7 ] ----->
True
Occupied fields : [ 13 , 7 ] [ 14 , 7 ][ 15 , 7 ][ 13 , 8 ] ----->
True
Occupied fields : [ 13 , 7 ] [ 12 , 7 ][ 11 , 7 ][ 13 , 8 ] ----->
True
Occupied fields : [ 13 , 8 ] [ 14 , 8 ][ 15 , 8 ][ 13 , 9 ] ----->
True
Occupied fields : [ 13 , 8 ] [ 12 , 8 ][ 11 , 8 ][ 13 , 9 ] ----->
True
Occupied fields : [ 13 , 9 ] [ 14 , 9 ][ 15 , 9 ][ 13 , 10 ] -----
> True
Occupied fields : [ 13 , 9 ] [ 12 , 9 ][ 11 , 9 ][ 13 , 10 ] -----
> True
Occupied fields : [ 13 , 10 ] [ 14 , 10 ][ 15 , 10 ][ 13 , 11 ]
-----> True
Occupied fields : [ 13 , 10 ] [ 12 , 10 ][ 11 , 10 ][ 13 , 11 ]
-----> True
Occupied fields : [ 13 , 11 ] [ 14 , 11 ][ 15 , 11 ][ 13 , 12 ]
-----> True
Occupied fields : [ 13 , 11 ] [ 12 , 11 ][ 11 , 11 ][ 13 , 12 ]
-----> True
Occupied fields : [ 13 , 12 ] [ 14 , 12 ][ 15 , 12 ][ 13 , 13 ]
-----> True
Occupied fields : [ 13 , 12 ] [ 12 , 12 ][ 11 , 12 ][ 13 , 13 ]
-----> True
Occupied fields : [ 13 , 13 ] [ 14 , 13 ][ 15 , 13 ][ 13 , 14 ]
-----> True
Occupied fields : [ 13 , 13 ] [ 12 , 13 ][ 11 , 13 ][ 13 , 14 ]
-----> True
Occupied fields : [ 13 , 14 ] [ 14 , 14 ][ 15 , 14 ][ 13 , 15 ]
-----> True
Occupied fields : [ 13 , 14 ] [ 12 , 14 ][ 11 , 14 ][ 13 , 15 ]
-----> True
Occupied fields : [ 13 , 15 ] [ 14 , 15 ][ 15 , 15 ][ 13 , 16 ]
-----> True
Occupied fields : [ 13 , 15 ] [ 12 , 15 ][ 11 , 15 ][ 13 , 16 ]
-----> True
Occupied fields : [ 13 , 16 ] [ 14 , 16 ][ 15 , 16 ][ 13 , 17 ]
-----> True
Occupied fields : [ 13 , 16 ] [ 12 , 16 ][ 11 , 16 ][ 13 , 17 ]
-----> True
Occupied fields : [ 13 , 17 ] [ 14 , 17 ][ 15 , 17 ][ 13 , 18 ]
-----> True

```

```

Occupied fields : [ 13 , 17 ] [ 12 , 17 ][ 11 , 17 ][ 13 , 18 ]
-----> True
Occupied fields : [ 13 , 18 ] [ 14 , 18 ][ 15 , 18 ][ 13 , 19 ]
-----> True
Occupied fields : [ 13 , 18 ] [ 12 , 18 ][ 11 , 18 ][ 13 , 19 ]
-----> True
Occupied fields : [ 13 , 19 ] [ 14 , 19 ][ 15 , 19 ][ 13 , 18 ]
-----> True
Occupied fields : [ 13 , 19 ] [ 12 , 19 ][ 11 , 19 ][ 13 , 18 ]
-----> True
Occupied fields : [ 14 , 0 ] [ 15 , 0 ][ 16 , 0 ][ 14 , 1 ] ----->
True
Occupied fields : [ 14 , 0 ] [ 13 , 0 ][ 12 , 0 ][ 14 , 1 ] ----->
True
Occupied fields : [ 14 , 1 ] [ 15 , 1 ][ 16 , 1 ][ 14 , 2 ] ----->
True
Occupied fields : [ 14 , 1 ] [ 13 , 1 ][ 12 , 1 ][ 14 , 2 ] ----->
True
Occupied fields : [ 14 , 2 ] [ 15 , 2 ][ 16 , 2 ][ 14 , 3 ] ----->
True
Occupied fields : [ 14 , 2 ] [ 13 , 2 ][ 12 , 2 ][ 14 , 3 ] ----->
True
Occupied fields : [ 14 , 3 ] [ 15 , 3 ][ 16 , 3 ][ 14 , 4 ] ----->
True
Occupied fields : [ 14 , 3 ] [ 13 , 3 ][ 12 , 3 ][ 14 , 4 ] ----->
True
Occupied fields : [ 14 , 4 ] [ 15 , 4 ][ 16 , 4 ][ 14 , 5 ] ----->
True
Occupied fields : [ 14 , 4 ] [ 13 , 4 ][ 12 , 4 ][ 14 , 5 ] ----->
True
Occupied fields : [ 14 , 5 ] [ 15 , 5 ][ 16 , 5 ][ 14 , 6 ] ----->
True
Occupied fields : [ 14 , 5 ] [ 13 , 5 ][ 12 , 5 ][ 14 , 6 ] ----->
True
Occupied fields : [ 14 , 6 ] [ 15 , 6 ][ 16 , 6 ][ 14 , 7 ] ----->
True
Occupied fields : [ 14 , 6 ] [ 13 , 6 ][ 12 , 6 ][ 14 , 7 ] ----->
True
Occupied fields : [ 14 , 7 ] [ 15 , 7 ][ 16 , 7 ][ 14 , 8 ] ----->
True
Occupied fields : [ 14 , 7 ] [ 13 , 7 ][ 12 , 7 ][ 14 , 8 ] ----->
True
Occupied fields : [ 14 , 8 ] [ 15 , 8 ][ 16 , 8 ][ 14 , 9 ] ----->
True
Occupied fields : [ 14 , 8 ] [ 13 , 8 ][ 12 , 8 ][ 14 , 9 ] ----->
True
Occupied fields : [ 14 , 9 ] [ 15 , 9 ][ 16 , 9 ][ 14 , 10 ] -----
> True
Occupied fields : [ 14 , 9 ] [ 13 , 9 ][ 12 , 9 ][ 14 , 10 ] -----
> True

```



```

Occupied fields : [ 14 , 10 ] [ 15 , 10 ][ 16 , 10 ][ 14 , 11 ]
-----> True
Occupied fields : [ 14 , 10 ] [ 13 , 10 ][ 12 , 10 ][ 14 , 11 ]
-----> True
Occupied fields : [ 14 , 11 ] [ 15 , 11 ][ 16 , 11 ][ 14 , 12 ]
-----> True
Occupied fields : [ 14 , 11 ] [ 13 , 11 ][ 12 , 11 ][ 14 , 12 ]
-----> True
Occupied fields : [ 14 , 12 ] [ 15 , 12 ][ 16 , 12 ][ 14 , 13 ]
-----> True
Occupied fields : [ 14 , 12 ] [ 13 , 12 ][ 12 , 12 ][ 14 , 13 ]
-----> True
Occupied fields : [ 14 , 13 ] [ 15 , 13 ][ 16 , 13 ][ 14 , 14 ]
-----> True
Occupied fields : [ 14 , 13 ] [ 13 , 13 ][ 12 , 13 ][ 14 , 14 ]
-----> True
Occupied fields : [ 14 , 14 ] [ 15 , 14 ][ 16 , 14 ][ 14 , 15 ]
-----> True
Occupied fields : [ 14 , 14 ] [ 13 , 14 ][ 12 , 14 ][ 14 , 15 ]
-----> True
Occupied fields : [ 14 , 15 ] [ 15 , 15 ][ 16 , 15 ][ 14 , 16 ]
-----> True
Occupied fields : [ 14 , 15 ] [ 13 , 15 ][ 12 , 15 ][ 14 , 16 ]
-----> True
Occupied fields : [ 14 , 16 ] [ 15 , 16 ][ 16 , 16 ][ 14 , 17 ]
-----> True
Occupied fields : [ 14 , 16 ] [ 13 , 16 ][ 12 , 16 ][ 14 , 17 ]
-----> True
Occupied fields : [ 14 , 17 ] [ 15 , 17 ][ 16 , 17 ][ 14 , 18 ]
-----> True
Occupied fields : [ 14 , 17 ] [ 13 , 17 ][ 12 , 17 ][ 14 , 18 ]
-----> True
Occupied fields : [ 14 , 18 ] [ 15 , 18 ][ 16 , 18 ][ 14 , 19 ]
-----> True
Occupied fields : [ 14 , 18 ] [ 13 , 18 ][ 12 , 18 ][ 14 , 19 ]
-----> True
Occupied fields : [ 14 , 19 ] [ 15 , 19 ][ 16 , 19 ][ 14 , 18 ]
-----> True
Occupied fields : [ 14 , 19 ] [ 13 , 19 ][ 12 , 19 ][ 14 , 18 ]
-----> True
Occupied fields : [ 15 , 0 ] [ 16 , 0 ][ 17 , 0 ][ 15 , 1 ] ----->
True
Occupied fields : [ 15 , 0 ] [ 14 , 0 ][ 13 , 0 ][ 15 , 1 ] ----->
True
Occupied fields : [ 15 , 1 ] [ 16 , 1 ][ 17 , 1 ][ 15 , 2 ] ----->
True
Occupied fields : [ 15 , 1 ] [ 14 , 1 ][ 13 , 1 ][ 15 , 2 ] ----->
True
Occupied fields : [ 15 , 2 ] [ 16 , 2 ][ 17 , 2 ][ 15 , 3 ] ----->
True

```

```

Occupied fields : [ 15 , 2 ] [ 14 , 2 ][ 13 , 2 ][ 15 , 3 ] ----->
True
Occupied fields : [ 15 , 3 ] [ 16 , 3 ][ 17 , 3 ][ 15 , 4 ] ----->
True
Occupied fields : [ 15 , 3 ] [ 14 , 3 ][ 13 , 3 ][ 15 , 4 ] ----->
True
Occupied fields : [ 15 , 4 ] [ 16 , 4 ][ 17 , 4 ][ 15 , 5 ] ----->
True
Occupied fields : [ 15 , 4 ] [ 14 , 4 ][ 13 , 4 ][ 15 , 5 ] ----->
True
Occupied fields : [ 15 , 5 ] [ 16 , 5 ][ 17 , 5 ][ 15 , 6 ] ----->
True
Occupied fields : [ 15 , 5 ] [ 14 , 5 ][ 13 , 5 ][ 15 , 6 ] ----->
True
Occupied fields : [ 15 , 6 ] [ 16 , 6 ][ 17 , 6 ][ 15 , 7 ] ----->
True
Occupied fields : [ 15 , 6 ] [ 14 , 6 ][ 13 , 6 ][ 15 , 7 ] ----->
True
Occupied fields : [ 15 , 7 ] [ 16 , 7 ][ 17 , 7 ][ 15 , 8 ] ----->
True
Occupied fields : [ 15 , 7 ] [ 14 , 7 ][ 13 , 7 ][ 15 , 8 ] ----->
True
Occupied fields : [ 15 , 8 ] [ 16 , 8 ][ 17 , 8 ][ 15 , 9 ] ----->
True
Occupied fields : [ 15 , 8 ] [ 14 , 8 ][ 13 , 8 ][ 15 , 9 ] ----->
True
Occupied fields : [ 15 , 9 ] [ 16 , 9 ][ 17 , 9 ][ 15 , 10 ] -----
> True
Occupied fields : [ 15 , 9 ] [ 14 , 9 ][ 13 , 9 ][ 15 , 10 ] -----
> True
Occupied fields : [ 15 , 10 ] [ 16 , 10 ][ 17 , 10 ][ 15 , 11 ]
-----> True
Occupied fields : [ 15 , 10 ] [ 14 , 10 ][ 13 , 10 ][ 15 , 11 ]
-----> True
Occupied fields : [ 15 , 11 ] [ 16 , 11 ][ 17 , 11 ][ 15 , 12 ]
-----> True
Occupied fields : [ 15 , 11 ] [ 14 , 11 ][ 13 , 11 ][ 15 , 12 ]
-----> True
Occupied fields : [ 15 , 12 ] [ 16 , 12 ][ 17 , 12 ][ 15 , 13 ]
-----> True
Occupied fields : [ 15 , 12 ] [ 14 , 12 ][ 13 , 12 ][ 15 , 13 ]
-----> True
Occupied fields : [ 15 , 13 ] [ 16 , 13 ][ 17 , 13 ][ 15 , 14 ]
-----> True
Occupied fields : [ 15 , 13 ] [ 14 , 13 ][ 13 , 13 ][ 15 , 14 ]
-----> True
Occupied fields : [ 15 , 14 ] [ 16 , 14 ][ 17 , 14 ][ 15 , 15 ]
-----> True
Occupied fields : [ 15 , 14 ] [ 14 , 14 ][ 13 , 14 ][ 15 , 15 ]
-----> True

```

```

Occupied fields : [ 15 , 15 ] [ 16 , 15 ][ 17 , 15 ][ 15 , 16 ]
-----> True
Occupied fields : [ 15 , 15 ] [ 14 , 15 ][ 13 , 15 ][ 15 , 16 ]
-----> True
Occupied fields : [ 15 , 16 ] [ 16 , 16 ][ 17 , 16 ][ 15 , 17 ]
-----> True
Occupied fields : [ 15 , 16 ] [ 14 , 16 ][ 13 , 16 ][ 15 , 17 ]
-----> True
Occupied fields : [ 15 , 17 ] [ 16 , 17 ][ 17 , 17 ][ 15 , 18 ]
-----> True
Occupied fields : [ 15 , 17 ] [ 14 , 17 ][ 13 , 17 ][ 15 , 18 ]
-----> True
Occupied fields : [ 15 , 18 ] [ 16 , 18 ][ 17 , 18 ][ 15 , 19 ]
-----> True
Occupied fields : [ 15 , 18 ] [ 14 , 18 ][ 13 , 18 ][ 15 , 19 ]
-----> True
Occupied fields : [ 15 , 19 ] [ 16 , 19 ][ 17 , 19 ][ 15 , 18 ]
-----> True
Occupied fields : [ 15 , 19 ] [ 14 , 19 ][ 13 , 19 ][ 15 , 18 ]
-----> True
Occupied fields : [ 16 , 0 ] [ 17 , 0 ][ 18 , 0 ][ 16 , 1 ] ----->
True
Occupied fields : [ 16 , 0 ] [ 15 , 0 ][ 14 , 0 ][ 16 , 1 ] ----->
True
Occupied fields : [ 16 , 1 ] [ 17 , 1 ][ 18 , 1 ][ 16 , 2 ] ----->
True
Occupied fields : [ 16 , 1 ] [ 15 , 1 ][ 14 , 1 ][ 16 , 2 ] ----->
True
Occupied fields : [ 16 , 2 ] [ 17 , 2 ][ 18 , 2 ][ 16 , 3 ] ----->
True
Occupied fields : [ 16 , 2 ] [ 15 , 2 ][ 14 , 2 ][ 16 , 3 ] ----->
True
Occupied fields : [ 16 , 3 ] [ 17 , 3 ][ 18 , 3 ][ 16 , 4 ] ----->
True
Occupied fields : [ 16 , 3 ] [ 15 , 3 ][ 14 , 3 ][ 16 , 4 ] ----->
True
Occupied fields : [ 16 , 4 ] [ 17 , 4 ][ 18 , 4 ][ 16 , 5 ] ----->
True
Occupied fields : [ 16 , 4 ] [ 15 , 4 ][ 14 , 4 ][ 16 , 5 ] ----->
True
Occupied fields : [ 16 , 5 ] [ 17 , 5 ][ 18 , 5 ][ 16 , 6 ] ----->
True
Occupied fields : [ 16 , 5 ] [ 15 , 5 ][ 14 , 5 ][ 16 , 6 ] ----->
True
Occupied fields : [ 16 , 6 ] [ 17 , 6 ][ 18 , 6 ][ 16 , 7 ] ----->
True
Occupied fields : [ 16 , 6 ] [ 15 , 6 ][ 14 , 6 ][ 16 , 7 ] ----->
True
Occupied fields : [ 16 , 7 ] [ 17 , 7 ][ 18 , 7 ][ 16 , 8 ] ----->
True

```

```

Occupied fields : [ 16 , 7 ] [ 15 , 7 ][ 14 , 7 ][ 16 , 8 ] ----->
True
Occupied fields : [ 16 , 8 ] [ 17 , 8 ][ 18 , 8 ][ 16 , 9 ] ----->
True
Occupied fields : [ 16 , 8 ] [ 15 , 8 ][ 14 , 8 ][ 16 , 9 ] ----->
True
Occupied fields : [ 16 , 9 ] [ 17 , 9 ][ 18 , 9 ][ 16 , 10 ] -----
> True
Occupied fields : [ 16 , 9 ] [ 15 , 9 ][ 14 , 9 ][ 16 , 10 ] -----
> True
Occupied fields : [ 16 , 10 ] [ 17 , 10 ][ 18 , 10 ][ 16 , 11 ]
-----> True
Occupied fields : [ 16 , 10 ] [ 15 , 10 ][ 14 , 10 ][ 16 , 11 ]
-----> True
Occupied fields : [ 16 , 11 ] [ 17 , 11 ][ 18 , 11 ][ 16 , 12 ]
-----> True
Occupied fields : [ 16 , 11 ] [ 15 , 11 ][ 14 , 11 ][ 16 , 12 ]
-----> True
Occupied fields : [ 16 , 12 ] [ 17 , 12 ][ 18 , 12 ][ 16 , 13 ]
-----> True
Occupied fields : [ 16 , 12 ] [ 15 , 12 ][ 14 , 12 ][ 16 , 13 ]
-----> True
Occupied fields : [ 16 , 13 ] [ 17 , 13 ][ 18 , 13 ][ 16 , 14 ]
-----> True
Occupied fields : [ 16 , 13 ] [ 15 , 13 ][ 14 , 13 ][ 16 , 14 ]
-----> True
Occupied fields : [ 16 , 14 ] [ 17 , 14 ][ 18 , 14 ][ 16 , 15 ]
-----> True
Occupied fields : [ 16 , 14 ] [ 15 , 14 ][ 14 , 14 ][ 16 , 15 ]
-----> True
Occupied fields : [ 16 , 15 ] [ 17 , 15 ][ 18 , 15 ][ 16 , 16 ]
-----> True
Occupied fields : [ 16 , 15 ] [ 15 , 15 ][ 14 , 15 ][ 16 , 16 ]
-----> True
Occupied fields : [ 16 , 16 ] [ 17 , 16 ][ 18 , 16 ][ 16 , 17 ]
-----> True
Occupied fields : [ 16 , 16 ] [ 15 , 16 ][ 14 , 16 ][ 16 , 17 ]
-----> True
Occupied fields : [ 16 , 17 ] [ 17 , 17 ][ 18 , 17 ][ 16 , 18 ]
-----> True
Occupied fields : [ 16 , 17 ] [ 15 , 17 ][ 14 , 17 ][ 16 , 18 ]
-----> True
Occupied fields : [ 16 , 18 ] [ 17 , 18 ][ 18 , 18 ][ 16 , 19 ]
-----> True
Occupied fields : [ 16 , 18 ] [ 15 , 18 ][ 14 , 18 ][ 16 , 19 ]
-----> True
Occupied fields : [ 16 , 19 ] [ 17 , 19 ][ 18 , 19 ][ 16 , 18 ]
-----> True
Occupied fields : [ 16 , 19 ] [ 15 , 19 ][ 14 , 19 ][ 16 , 18 ]
-----> True

```

```

Occupied fields : [ 17 , 0 ] [ 18 , 0 ][ 19 , 0 ][ 17 , 1 ] ----->
True
Occupied fields : [ 17 , 0 ] [ 16 , 0 ][ 15 , 0 ][ 17 , 1 ] ----->
True
Occupied fields : [ 17 , 1 ] [ 18 , 1 ][ 19 , 1 ][ 17 , 2 ] ----->
True
Occupied fields : [ 17 , 1 ] [ 16 , 1 ][ 15 , 1 ][ 17 , 2 ] ----->
True
Occupied fields : [ 17 , 2 ] [ 18 , 2 ][ 19 , 2 ][ 17 , 3 ] ----->
True
Occupied fields : [ 17 , 2 ] [ 16 , 2 ][ 15 , 2 ][ 17 , 3 ] ----->
True
Occupied fields : [ 17 , 3 ] [ 18 , 3 ][ 19 , 3 ][ 17 , 4 ] ----->
True
Occupied fields : [ 17 , 3 ] [ 16 , 3 ][ 15 , 3 ][ 17 , 4 ] ----->
True
Occupied fields : [ 17 , 4 ] [ 18 , 4 ][ 19 , 4 ][ 17 , 5 ] ----->
True
Occupied fields : [ 17 , 4 ] [ 16 , 4 ][ 15 , 4 ][ 17 , 5 ] ----->
True
Occupied fields : [ 17 , 5 ] [ 18 , 5 ][ 19 , 5 ][ 17 , 6 ] ----->
True
Occupied fields : [ 17 , 5 ] [ 16 , 5 ][ 15 , 5 ][ 17 , 6 ] ----->
True
Occupied fields : [ 17 , 6 ] [ 18 , 6 ][ 19 , 6 ][ 17 , 7 ] ----->
True
Occupied fields : [ 17 , 6 ] [ 16 , 6 ][ 15 , 6 ][ 17 , 7 ] ----->
True
Occupied fields : [ 17 , 7 ] [ 18 , 7 ][ 19 , 7 ][ 17 , 8 ] ----->
True
Occupied fields : [ 17 , 7 ] [ 16 , 7 ][ 15 , 7 ][ 17 , 8 ] ----->
True
Occupied fields : [ 17 , 8 ] [ 18 , 8 ][ 19 , 8 ][ 17 , 9 ] ----->
True
Occupied fields : [ 17 , 8 ] [ 16 , 8 ][ 15 , 8 ][ 17 , 9 ] ----->
True
Occupied fields : [ 17 , 9 ] [ 18 , 9 ][ 19 , 9 ][ 17 , 10 ] -----
> True
Occupied fields : [ 17 , 9 ] [ 16 , 9 ][ 15 , 9 ][ 17 , 10 ] -----
> True
Occupied fields : [ 17 , 10 ] [ 18 , 10 ][ 19 , 10 ][ 17 , 11 ]
-----> True
Occupied fields : [ 17 , 10 ] [ 16 , 10 ][ 15 , 10 ][ 17 , 11 ]
-----> True
Occupied fields : [ 17 , 11 ] [ 18 , 11 ][ 19 , 11 ][ 17 , 12 ]
-----> True
Occupied fields : [ 17 , 11 ] [ 16 , 11 ][ 15 , 11 ][ 17 , 12 ]
-----> True
Occupied fields : [ 17 , 12 ] [ 18 , 12 ][ 19 , 12 ][ 17 , 13 ]
-----> True

```

```

Occupied fields : [ 17 , 12 ] [ 16 , 12 ][ 15 , 12 ][ 17 , 13 ]
-----> True
Occupied fields : [ 17 , 13 ] [ 18 , 13 ][ 19 , 13 ][ 17 , 14 ]
-----> True
Occupied fields : [ 17 , 13 ] [ 16 , 13 ][ 15 , 13 ][ 17 , 14 ]
-----> True
Occupied fields : [ 17 , 14 ] [ 18 , 14 ][ 19 , 14 ][ 17 , 15 ]
-----> True
Occupied fields : [ 17 , 14 ] [ 16 , 14 ][ 15 , 14 ][ 17 , 15 ]
-----> True
Occupied fields : [ 17 , 15 ] [ 18 , 15 ][ 19 , 15 ][ 17 , 16 ]
-----> True
Occupied fields : [ 17 , 15 ] [ 16 , 15 ][ 15 , 15 ][ 17 , 16 ]
-----> True
Occupied fields : [ 17 , 16 ] [ 18 , 16 ][ 19 , 16 ][ 17 , 17 ]
-----> True
Occupied fields : [ 17 , 16 ] [ 16 , 16 ][ 15 , 16 ][ 17 , 17 ]
-----> True
Occupied fields : [ 17 , 17 ] [ 18 , 17 ][ 19 , 17 ][ 17 , 18 ]
-----> True
Occupied fields : [ 17 , 17 ] [ 16 , 17 ][ 15 , 17 ][ 17 , 18 ]
-----> True
Occupied fields : [ 17 , 18 ] [ 18 , 18 ][ 19 , 18 ][ 17 , 19 ]
-----> True
Occupied fields : [ 17 , 18 ] [ 16 , 18 ][ 15 , 18 ][ 17 , 19 ]
-----> True
Occupied fields : [ 17 , 19 ] [ 18 , 19 ][ 19 , 19 ][ 17 , 18 ]
-----> True
Occupied fields : [ 17 , 19 ] [ 16 , 19 ][ 15 , 19 ][ 17 , 18 ]
-----> True
Occupied fields : [ 18 , 0 ] [ 17 , 0 ][ 16 , 0 ][ 18 , 1 ] ----->
True
Occupied fields : [ 18 , 1 ] [ 17 , 1 ][ 16 , 1 ][ 18 , 2 ] ----->
True
Occupied fields : [ 18 , 2 ] [ 17 , 2 ][ 16 , 2 ][ 18 , 3 ] ----->
True
Occupied fields : [ 18 , 3 ] [ 17 , 3 ][ 16 , 3 ][ 18 , 4 ] ----->
True
Occupied fields : [ 18 , 4 ] [ 17 , 4 ][ 16 , 4 ][ 18 , 5 ] ----->
True
Occupied fields : [ 18 , 5 ] [ 17 , 5 ][ 16 , 5 ][ 18 , 6 ] ----->
True
Occupied fields : [ 18 , 6 ] [ 17 , 6 ][ 16 , 6 ][ 18 , 7 ] ----->
True
Occupied fields : [ 18 , 7 ] [ 17 , 7 ][ 16 , 7 ][ 18 , 8 ] ----->
True
Occupied fields : [ 18 , 8 ] [ 17 , 8 ][ 16 , 8 ][ 18 , 9 ] ----->
True
Occupied fields : [ 18 , 9 ] [ 17 , 9 ][ 16 , 9 ][ 18 , 10 ] -----
> True

```

```

Occupied fields : [ 18 , 10 ] [ 17 , 10 ][ 16 , 10 ][ 18 , 11 ]
-----> True
Occupied fields : [ 18 , 11 ] [ 17 , 11 ][ 16 , 11 ][ 18 , 12 ]
-----> True
Occupied fields : [ 18 , 12 ] [ 17 , 12 ][ 16 , 12 ][ 18 , 13 ]
-----> True
Occupied fields : [ 18 , 13 ] [ 17 , 13 ][ 16 , 13 ][ 18 , 14 ]
-----> True
Occupied fields : [ 18 , 14 ] [ 17 , 14 ][ 16 , 14 ][ 18 , 15 ]
-----> True
Occupied fields : [ 18 , 15 ] [ 17 , 15 ][ 16 , 15 ][ 18 , 16 ]
-----> True
Occupied fields : [ 18 , 16 ] [ 17 , 16 ][ 16 , 16 ][ 18 , 17 ]
-----> True
Occupied fields : [ 18 , 17 ] [ 17 , 17 ][ 16 , 17 ][ 18 , 18 ]
-----> True
Occupied fields : [ 18 , 18 ] [ 17 , 18 ][ 16 , 18 ][ 18 , 19 ]
-----> True
Occupied fields : [ 18 , 19 ] [ 17 , 19 ][ 16 , 19 ][ 18 , 18 ]
-----> True
Occupied fields : [ 19 , 0 ] [ 18 , 0 ][ 17 , 0 ][ 19 , 1 ] ----->
True
Occupied fields : [ 19 , 1 ] [ 18 , 1 ][ 17 , 1 ][ 19 , 2 ] ----->
True
Occupied fields : [ 19 , 2 ] [ 18 , 2 ][ 17 , 2 ][ 19 , 3 ] ----->
True
Occupied fields : [ 19 , 3 ] [ 18 , 3 ][ 17 , 3 ][ 19 , 4 ] ----->
True
Occupied fields : [ 19 , 4 ] [ 18 , 4 ][ 17 , 4 ][ 19 , 5 ] ----->
True
Occupied fields : [ 19 , 5 ] [ 18 , 5 ][ 17 , 5 ][ 19 , 6 ] ----->
True
Occupied fields : [ 19 , 6 ] [ 18 , 6 ][ 17 , 6 ][ 19 , 7 ] ----->
True
Occupied fields : [ 19 , 7 ] [ 18 , 7 ][ 17 , 7 ][ 19 , 8 ] ----->
True
Occupied fields : [ 19 , 8 ] [ 18 , 8 ][ 17 , 8 ][ 19 , 9 ] ----->
True
Occupied fields : [ 19 , 9 ] [ 18 , 9 ][ 17 , 9 ][ 19 , 10 ] -----
> True
Occupied fields : [ 19 , 10 ] [ 18 , 10 ][ 17 , 10 ][ 19 , 11 ]
-----> True
Occupied fields : [ 19 , 11 ] [ 18 , 11 ][ 17 , 11 ][ 19 , 12 ]
-----> True
Occupied fields : [ 19 , 12 ] [ 18 , 12 ][ 17 , 12 ][ 19 , 13 ]
-----> True
Occupied fields : [ 19 , 13 ] [ 18 , 13 ][ 17 , 13 ][ 19 , 14 ]
-----> True
Occupied fields : [ 19 , 14 ] [ 18 , 14 ][ 17 , 14 ][ 19 , 15 ]
-----> True

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Occupied fields : [ 19 , 15 ] [ 18 , 15 ][ 17 , 15 ][ 19 , 16 ]
-----> True
Occupied fields : [ 19 , 16 ] [ 18 , 16 ][ 17 , 16 ][ 19 , 17 ]
-----> True
Occupied fields : [ 19 , 17 ] [ 18 , 17 ][ 17 , 17 ][ 19 , 18 ]
-----> True
Occupied fields : [ 19 , 18 ] [ 18 , 18 ][ 17 , 18 ][ 19 , 19 ]
-----> True
Occupied fields : [ 19 , 19 ] [ 18 , 19 ][ 17 , 19 ][ 19 , 18 ]
-----> True
Check loose cases...
-----
Occupied fields : [ 0 , 0 ] [ 1 , 0 ][ 0 , 1 ] -----> False
Occupied fields : [ 0 , 1 ] [ 1 , 1 ][ 0 , 2 ] -----> False
Occupied fields : [ 0 , 2 ] [ 1 , 2 ][ 0 , 3 ] -----> False
Occupied fields : [ 0 , 3 ] [ 1 , 3 ][ 0 , 4 ] -----> False
Occupied fields : [ 0 , 4 ] [ 1 , 4 ][ 0 , 5 ] -----> False
Occupied fields : [ 0 , 5 ] [ 1 , 5 ][ 0 , 6 ] -----> False
Occupied fields : [ 0 , 6 ] [ 1 , 6 ][ 0 , 7 ] -----> False
Occupied fields : [ 0 , 7 ] [ 1 , 7 ][ 0 , 8 ] -----> False
Occupied fields : [ 0 , 8 ] [ 1 , 8 ][ 0 , 9 ] -----> False
Occupied fields : [ 0 , 9 ] [ 1 , 9 ][ 0 , 10 ] -----> False
Occupied fields : [ 0 , 10 ] [ 1 , 10 ][ 0 , 11 ] -----> False
Occupied fields : [ 0 , 11 ] [ 1 , 11 ][ 0 , 12 ] -----> False
Occupied fields : [ 0 , 12 ] [ 1 , 12 ][ 0 , 13 ] -----> False
Occupied fields : [ 0 , 13 ] [ 1 , 13 ][ 0 , 14 ] -----> False
Occupied fields : [ 0 , 14 ] [ 1 , 14 ][ 0 , 15 ] -----> False
Occupied fields : [ 0 , 15 ] [ 1 , 15 ][ 0 , 16 ] -----> False
Occupied fields : [ 0 , 16 ] [ 1 , 16 ][ 0 , 17 ] -----> False
Occupied fields : [ 0 , 17 ] [ 1 , 17 ][ 0 , 18 ] -----> False
Occupied fields : [ 0 , 18 ] [ 1 , 18 ][ 0 , 19 ] -----> False
Occupied fields : [ 0 , 19 ] [ 1 , 19 ][ 0 , 18 ] -----> False
Occupied fields : [ 1 , 0 ] [ 2 , 0 ][ 1 , 1 ] -----> False
Occupied fields : [ 1 , 0 ] [ 0 , 0 ][ 1 , 1 ] -----> False
Occupied fields : [ 1 , 1 ] [ 2 , 1 ][ 1 , 2 ] -----> False
Occupied fields : [ 1 , 1 ] [ 0 , 1 ][ 1 , 2 ] -----> False
Occupied fields : [ 1 , 2 ] [ 2 , 2 ][ 1 , 3 ] -----> False
Occupied fields : [ 1 , 2 ] [ 0 , 2 ][ 1 , 3 ] -----> False
Occupied fields : [ 1 , 3 ] [ 2 , 3 ][ 1 , 4 ] -----> False
Occupied fields : [ 1 , 3 ] [ 0 , 3 ][ 1 , 4 ] -----> False
Occupied fields : [ 1 , 4 ] [ 2 , 4 ][ 1 , 5 ] -----> False
Occupied fields : [ 1 , 4 ] [ 0 , 4 ][ 1 , 5 ] -----> False
Occupied fields : [ 1 , 5 ] [ 2 , 5 ][ 1 , 6 ] -----> False
Occupied fields : [ 1 , 5 ] [ 0 , 5 ][ 1 , 6 ] -----> False
Occupied fields : [ 1 , 6 ] [ 2 , 6 ][ 1 , 7 ] -----> False
Occupied fields : [ 1 , 6 ] [ 0 , 6 ][ 1 , 7 ] -----> False
Occupied fields : [ 1 , 7 ] [ 2 , 7 ][ 1 , 8 ] -----> False
Occupied fields : [ 1 , 7 ] [ 0 , 7 ][ 1 , 8 ] -----> False
Occupied fields : [ 1 , 8 ] [ 2 , 8 ][ 1 , 9 ] -----> False
Occupied fields : [ 1 , 8 ] [ 0 , 8 ][ 1 , 9 ] -----> False
Occupied fields : [ 1 , 9 ] [ 2 , 9 ][ 1 , 10 ] -----> False

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Occupied fields : [ 1 , 9 ] [ 0 , 9 ] [ 1 , 10 ] -----> False
Occupied fields : [ 1 , 10 ] [ 2 , 10 ] [ 1 , 11 ] -----> False
Occupied fields : [ 1 , 10 ] [ 0 , 10 ] [ 1 , 11 ] -----> False
Occupied fields : [ 1 , 11 ] [ 2 , 11 ] [ 1 , 12 ] -----> False
Occupied fields : [ 1 , 11 ] [ 0 , 11 ] [ 1 , 12 ] -----> False
Occupied fields : [ 1 , 12 ] [ 2 , 12 ] [ 1 , 13 ] -----> False
Occupied fields : [ 1 , 12 ] [ 0 , 12 ] [ 1 , 13 ] -----> False
Occupied fields : [ 1 , 13 ] [ 2 , 13 ] [ 1 , 14 ] -----> False
Occupied fields : [ 1 , 13 ] [ 0 , 13 ] [ 1 , 14 ] -----> False
Occupied fields : [ 1 , 14 ] [ 2 , 14 ] [ 1 , 15 ] -----> False
Occupied fields : [ 1 , 14 ] [ 0 , 14 ] [ 1 , 15 ] -----> False
Occupied fields : [ 1 , 15 ] [ 2 , 15 ] [ 1 , 16 ] -----> False
Occupied fields : [ 1 , 15 ] [ 0 , 15 ] [ 1 , 16 ] -----> False
Occupied fields : [ 1 , 16 ] [ 2 , 16 ] [ 1 , 17 ] -----> False
Occupied fields : [ 1 , 16 ] [ 0 , 16 ] [ 1 , 17 ] -----> False
Occupied fields : [ 1 , 17 ] [ 2 , 17 ] [ 1 , 18 ] -----> False
Occupied fields : [ 1 , 17 ] [ 0 , 17 ] [ 1 , 18 ] -----> False
Occupied fields : [ 1 , 18 ] [ 2 , 18 ] [ 1 , 19 ] -----> False
Occupied fields : [ 1 , 18 ] [ 0 , 18 ] [ 1 , 19 ] -----> False
Occupied fields : [ 1 , 19 ] [ 2 , 19 ] [ 1 , 18 ] -----> False
Occupied fields : [ 1 , 19 ] [ 0 , 19 ] [ 1 , 18 ] -----> False
Occupied fields : [ 2 , 0 ] [ 3 , 0 ] [ 2 , 1 ] -----> False
Occupied fields : [ 2 , 0 ] [ 1 , 0 ] [ 2 , 1 ] -----> False
Occupied fields : [ 2 , 1 ] [ 3 , 1 ] [ 2 , 2 ] -----> False
Occupied fields : [ 2 , 1 ] [ 1 , 1 ] [ 2 , 2 ] -----> False
Occupied fields : [ 2 , 2 ] [ 3 , 2 ] [ 2 , 3 ] -----> False
Occupied fields : [ 2 , 2 ] [ 1 , 2 ] [ 2 , 3 ] -----> False
Occupied fields : [ 2 , 3 ] [ 3 , 3 ] [ 2 , 4 ] -----> False
Occupied fields : [ 2 , 3 ] [ 1 , 3 ] [ 2 , 4 ] -----> False
Occupied fields : [ 2 , 4 ] [ 3 , 4 ] [ 2 , 5 ] -----> False
Occupied fields : [ 2 , 4 ] [ 1 , 4 ] [ 2 , 5 ] -----> False
Occupied fields : [ 2 , 5 ] [ 3 , 5 ] [ 2 , 6 ] -----> False
Occupied fields : [ 2 , 5 ] [ 1 , 5 ] [ 2 , 6 ] -----> False
Occupied fields : [ 2 , 6 ] [ 3 , 6 ] [ 2 , 7 ] -----> False
Occupied fields : [ 2 , 6 ] [ 1 , 6 ] [ 2 , 7 ] -----> False
Occupied fields : [ 2 , 7 ] [ 3 , 7 ] [ 2 , 8 ] -----> False
Occupied fields : [ 2 , 7 ] [ 1 , 7 ] [ 2 , 8 ] -----> False
Occupied fields : [ 2 , 8 ] [ 3 , 8 ] [ 2 , 9 ] -----> False
Occupied fields : [ 2 , 8 ] [ 1 , 8 ] [ 2 , 9 ] -----> False
Occupied fields : [ 2 , 9 ] [ 3 , 9 ] [ 2 , 10 ] -----> False
Occupied fields : [ 2 , 9 ] [ 1 , 9 ] [ 2 , 10 ] -----> False
Occupied fields : [ 2 , 10 ] [ 3 , 10 ] [ 2 , 11 ] -----> False
Occupied fields : [ 2 , 10 ] [ 1 , 10 ] [ 2 , 11 ] -----> False
Occupied fields : [ 2 , 11 ] [ 3 , 11 ] [ 2 , 12 ] -----> False
Occupied fields : [ 2 , 11 ] [ 1 , 11 ] [ 2 , 12 ] -----> False
Occupied fields : [ 2 , 12 ] [ 3 , 12 ] [ 2 , 13 ] -----> False
Occupied fields : [ 2 , 12 ] [ 1 , 12 ] [ 2 , 13 ] -----> False
Occupied fields : [ 2 , 13 ] [ 3 , 13 ] [ 2 , 14 ] -----> False
Occupied fields : [ 2 , 13 ] [ 1 , 13 ] [ 2 , 14 ] -----> False
Occupied fields : [ 2 , 14 ] [ 3 , 14 ] [ 2 , 15 ] -----> False
Occupied fields : [ 2 , 14 ] [ 1 , 14 ] [ 2 , 15 ] -----> False

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Occupied fields : [ 2 , 15 ] [ 3 , 15 ] [ 2 , 16 ] -----> False
Occupied fields : [ 2 , 15 ] [ 1 , 15 ] [ 2 , 16 ] -----> False
Occupied fields : [ 2 , 16 ] [ 3 , 16 ] [ 2 , 17 ] -----> False
Occupied fields : [ 2 , 16 ] [ 1 , 16 ] [ 2 , 17 ] -----> False
Occupied fields : [ 2 , 17 ] [ 3 , 17 ] [ 2 , 18 ] -----> False
Occupied fields : [ 2 , 17 ] [ 1 , 17 ] [ 2 , 18 ] -----> False
Occupied fields : [ 2 , 18 ] [ 3 , 18 ] [ 2 , 19 ] -----> False
Occupied fields : [ 2 , 18 ] [ 1 , 18 ] [ 2 , 19 ] -----> False
Occupied fields : [ 2 , 19 ] [ 3 , 19 ] [ 2 , 18 ] -----> False
Occupied fields : [ 2 , 19 ] [ 1 , 19 ] [ 2 , 18 ] -----> False
Occupied fields : [ 3 , 0 ] [ 4 , 0 ] [ 3 , 1 ] -----> False
Occupied fields : [ 3 , 0 ] [ 2 , 0 ] [ 3 , 1 ] -----> False
Occupied fields : [ 3 , 1 ] [ 4 , 1 ] [ 3 , 2 ] -----> False
Occupied fields : [ 3 , 1 ] [ 2 , 1 ] [ 3 , 2 ] -----> False
Occupied fields : [ 3 , 2 ] [ 4 , 2 ] [ 3 , 3 ] -----> False
Occupied fields : [ 3 , 2 ] [ 2 , 2 ] [ 3 , 3 ] -----> False
Occupied fields : [ 3 , 3 ] [ 4 , 3 ] [ 3 , 4 ] -----> False
Occupied fields : [ 3 , 3 ] [ 2 , 3 ] [ 3 , 4 ] -----> False
Occupied fields : [ 3 , 4 ] [ 4 , 4 ] [ 3 , 5 ] -----> False
Occupied fields : [ 3 , 4 ] [ 2 , 4 ] [ 3 , 5 ] -----> False
Occupied fields : [ 3 , 5 ] [ 4 , 5 ] [ 3 , 6 ] -----> False
Occupied fields : [ 3 , 5 ] [ 2 , 5 ] [ 3 , 6 ] -----> False
Occupied fields : [ 3 , 6 ] [ 4 , 6 ] [ 3 , 7 ] -----> False
Occupied fields : [ 3 , 6 ] [ 2 , 6 ] [ 3 , 7 ] -----> False
Occupied fields : [ 3 , 7 ] [ 4 , 7 ] [ 3 , 8 ] -----> False
Occupied fields : [ 3 , 7 ] [ 2 , 7 ] [ 3 , 8 ] -----> False
Occupied fields : [ 3 , 8 ] [ 4 , 8 ] [ 3 , 9 ] -----> False
Occupied fields : [ 3 , 8 ] [ 2 , 8 ] [ 3 , 9 ] -----> False
Occupied fields : [ 3 , 9 ] [ 4 , 9 ] [ 3 , 10 ] -----> False
Occupied fields : [ 3 , 9 ] [ 2 , 9 ] [ 3 , 10 ] -----> False
Occupied fields : [ 3 , 10 ] [ 4 , 10 ] [ 3 , 11 ] -----> False
Occupied fields : [ 3 , 10 ] [ 2 , 10 ] [ 3 , 11 ] -----> False
Occupied fields : [ 3 , 11 ] [ 4 , 11 ] [ 3 , 12 ] -----> False
Occupied fields : [ 3 , 11 ] [ 2 , 11 ] [ 3 , 12 ] -----> False
Occupied fields : [ 3 , 12 ] [ 4 , 12 ] [ 3 , 13 ] -----> False
Occupied fields : [ 3 , 12 ] [ 2 , 12 ] [ 3 , 13 ] -----> False
Occupied fields : [ 3 , 13 ] [ 4 , 13 ] [ 3 , 14 ] -----> False
Occupied fields : [ 3 , 13 ] [ 2 , 13 ] [ 3 , 14 ] -----> False
Occupied fields : [ 3 , 14 ] [ 4 , 14 ] [ 3 , 15 ] -----> False
Occupied fields : [ 3 , 14 ] [ 2 , 14 ] [ 3 , 15 ] -----> False
Occupied fields : [ 3 , 15 ] [ 4 , 15 ] [ 3 , 16 ] -----> False
Occupied fields : [ 3 , 15 ] [ 2 , 15 ] [ 3 , 16 ] -----> False
Occupied fields : [ 3 , 16 ] [ 4 , 16 ] [ 3 , 17 ] -----> False
Occupied fields : [ 3 , 16 ] [ 2 , 16 ] [ 3 , 17 ] -----> False
Occupied fields : [ 3 , 17 ] [ 4 , 17 ] [ 3 , 18 ] -----> False
Occupied fields : [ 3 , 17 ] [ 2 , 17 ] [ 3 , 18 ] -----> False
Occupied fields : [ 3 , 18 ] [ 4 , 18 ] [ 3 , 19 ] -----> False
Occupied fields : [ 3 , 18 ] [ 2 , 18 ] [ 3 , 19 ] -----> False
Occupied fields : [ 3 , 19 ] [ 4 , 19 ] [ 3 , 18 ] -----> False
Occupied fields : [ 3 , 19 ] [ 2 , 19 ] [ 3 , 18 ] -----> False
Occupied fields : [ 4 , 0 ] [ 5 , 0 ] [ 4 , 1 ] -----> False

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```

Occupied fields : [ 4 , 0 ] [ 3 , 0 ] [ 4 , 1 ] -----> False
Occupied fields : [ 4 , 1 ] [ 5 , 1 ] [ 4 , 2 ] -----> False
Occupied fields : [ 4 , 1 ] [ 3 , 1 ] [ 4 , 2 ] -----> False
Occupied fields : [ 4 , 2 ] [ 5 , 2 ] [ 4 , 3 ] -----> False
Occupied fields : [ 4 , 2 ] [ 3 , 2 ] [ 4 , 3 ] -----> False
Occupied fields : [ 4 , 3 ] [ 5 , 3 ] [ 4 , 4 ] -----> False
Occupied fields : [ 4 , 3 ] [ 3 , 3 ] [ 4 , 4 ] -----> False
Occupied fields : [ 4 , 4 ] [ 5 , 4 ] [ 4 , 5 ] -----> False
Occupied fields : [ 4 , 4 ] [ 3 , 4 ] [ 4 , 5 ] -----> False
Occupied fields : [ 4 , 5 ] [ 5 , 5 ] [ 4 , 6 ] -----> False
Occupied fields : [ 4 , 5 ] [ 3 , 5 ] [ 4 , 6 ] -----> False
Occupied fields : [ 4 , 6 ] [ 5 , 6 ] [ 4 , 7 ] -----> False
Occupied fields : [ 4 , 6 ] [ 3 , 6 ] [ 4 , 7 ] -----> False
Occupied fields : [ 4 , 7 ] [ 5 , 7 ] [ 4 , 8 ] -----> False
Occupied fields : [ 4 , 7 ] [ 3 , 7 ] [ 4 , 8 ] -----> False
Occupied fields : [ 4 , 8 ] [ 5 , 8 ] [ 4 , 9 ] -----> False
Occupied fields : [ 4 , 8 ] [ 3 , 8 ] [ 4 , 9 ] -----> False
Occupied fields : [ 4 , 9 ] [ 5 , 9 ] [ 4 , 10 ] -----> False
Occupied fields : [ 4 , 9 ] [ 3 , 9 ] [ 4 , 10 ] -----> False
Occupied fields : [ 4 , 10 ] [ 5 , 10 ] [ 4 , 11 ] -----> False
Occupied fields : [ 4 , 10 ] [ 3 , 10 ] [ 4 , 11 ] -----> False
Occupied fields : [ 4 , 11 ] [ 5 , 11 ] [ 4 , 12 ] -----> False
Occupied fields : [ 4 , 11 ] [ 3 , 11 ] [ 4 , 12 ] -----> False
Occupied fields : [ 4 , 12 ] [ 5 , 12 ] [ 4 , 13 ] -----> False
Occupied fields : [ 4 , 12 ] [ 3 , 12 ] [ 4 , 13 ] -----> False
Occupied fields : [ 4 , 13 ] [ 5 , 13 ] [ 4 , 14 ] -----> False
Occupied fields : [ 4 , 13 ] [ 3 , 13 ] [ 4 , 14 ] -----> False
Occupied fields : [ 4 , 14 ] [ 5 , 14 ] [ 4 , 15 ] -----> False
Occupied fields : [ 4 , 14 ] [ 3 , 14 ] [ 4 , 15 ] -----> False
Occupied fields : [ 4 , 15 ] [ 5 , 15 ] [ 4 , 16 ] -----> False
Occupied fields : [ 4 , 15 ] [ 3 , 15 ] [ 4 , 16 ] -----> False
Occupied fields : [ 4 , 16 ] [ 5 , 16 ] [ 4 , 17 ] -----> False
Occupied fields : [ 4 , 16 ] [ 3 , 16 ] [ 4 , 17 ] -----> False
Occupied fields : [ 4 , 17 ] [ 5 , 17 ] [ 4 , 18 ] -----> False
Occupied fields : [ 4 , 17 ] [ 3 , 17 ] [ 4 , 18 ] -----> False
Occupied fields : [ 4 , 18 ] [ 5 , 18 ] [ 4 , 19 ] -----> False
Occupied fields : [ 4 , 18 ] [ 3 , 18 ] [ 4 , 19 ] -----> False
Occupied fields : [ 4 , 19 ] [ 5 , 19 ] [ 4 , 18 ] -----> False
Occupied fields : [ 4 , 19 ] [ 3 , 19 ] [ 4 , 18 ] -----> False
Occupied fields : [ 5 , 0 ] [ 6 , 0 ] [ 5 , 1 ] -----> False
Occupied fields : [ 5 , 0 ] [ 4 , 0 ] [ 5 , 1 ] -----> False
Occupied fields : [ 5 , 1 ] [ 6 , 1 ] [ 5 , 2 ] -----> False
Occupied fields : [ 5 , 1 ] [ 4 , 1 ] [ 5 , 2 ] -----> False
Occupied fields : [ 5 , 2 ] [ 6 , 2 ] [ 5 , 3 ] -----> False
Occupied fields : [ 5 , 2 ] [ 4 , 2 ] [ 5 , 3 ] -----> False
Occupied fields : [ 5 , 3 ] [ 6 , 3 ] [ 5 , 4 ] -----> False
Occupied fields : [ 5 , 3 ] [ 4 , 3 ] [ 5 , 4 ] -----> False
Occupied fields : [ 5 , 4 ] [ 6 , 4 ] [ 5 , 5 ] -----> False
Occupied fields : [ 5 , 4 ] [ 4 , 4 ] [ 5 , 5 ] -----> False
Occupied fields : [ 5 , 5 ] [ 6 , 5 ] [ 5 , 6 ] -----> False
Occupied fields : [ 5 , 5 ] [ 4 , 5 ] [ 5 , 6 ] -----> False

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Occupied fields : [ 5 , 6 ] [ 6 , 6 ] [ 5 , 7 ] -----> False
Occupied fields : [ 5 , 6 ] [ 4 , 6 ] [ 5 , 7 ] -----> False
Occupied fields : [ 5 , 7 ] [ 6 , 7 ] [ 5 , 8 ] -----> False
Occupied fields : [ 5 , 7 ] [ 4 , 7 ] [ 5 , 8 ] -----> False
Occupied fields : [ 5 , 8 ] [ 6 , 8 ] [ 5 , 9 ] -----> False
Occupied fields : [ 5 , 8 ] [ 4 , 8 ] [ 5 , 9 ] -----> False
Occupied fields : [ 5 , 9 ] [ 6 , 9 ] [ 5 , 10 ] -----> False
Occupied fields : [ 5 , 9 ] [ 4 , 9 ] [ 5 , 10 ] -----> False
Occupied fields : [ 5 , 10 ] [ 6 , 10 ] [ 5 , 11 ] -----> False
Occupied fields : [ 5 , 10 ] [ 4 , 10 ] [ 5 , 11 ] -----> False
Occupied fields : [ 5 , 11 ] [ 6 , 11 ] [ 5 , 12 ] -----> False
Occupied fields : [ 5 , 11 ] [ 4 , 11 ] [ 5 , 12 ] -----> False
Occupied fields : [ 5 , 12 ] [ 6 , 12 ] [ 5 , 13 ] -----> False
Occupied fields : [ 5 , 12 ] [ 4 , 12 ] [ 5 , 13 ] -----> False
Occupied fields : [ 5 , 13 ] [ 6 , 13 ] [ 5 , 14 ] -----> False
Occupied fields : [ 5 , 13 ] [ 4 , 13 ] [ 5 , 14 ] -----> False
Occupied fields : [ 5 , 14 ] [ 6 , 14 ] [ 5 , 15 ] -----> False
Occupied fields : [ 5 , 14 ] [ 4 , 14 ] [ 5 , 15 ] -----> False
Occupied fields : [ 5 , 15 ] [ 6 , 15 ] [ 5 , 16 ] -----> False
Occupied fields : [ 5 , 15 ] [ 4 , 15 ] [ 5 , 16 ] -----> False
Occupied fields : [ 5 , 16 ] [ 6 , 16 ] [ 5 , 17 ] -----> False
Occupied fields : [ 5 , 16 ] [ 4 , 16 ] [ 5 , 17 ] -----> False
Occupied fields : [ 5 , 17 ] [ 6 , 17 ] [ 5 , 18 ] -----> False
Occupied fields : [ 5 , 17 ] [ 4 , 17 ] [ 5 , 18 ] -----> False
Occupied fields : [ 5 , 18 ] [ 6 , 18 ] [ 5 , 19 ] -----> False
Occupied fields : [ 5 , 18 ] [ 4 , 18 ] [ 5 , 19 ] -----> False
Occupied fields : [ 5 , 19 ] [ 6 , 19 ] [ 5 , 18 ] -----> False
Occupied fields : [ 5 , 19 ] [ 4 , 19 ] [ 5 , 18 ] -----> False
Occupied fields : [ 6 , 0 ] [ 7 , 0 ] [ 6 , 1 ] -----> False
Occupied fields : [ 6 , 0 ] [ 5 , 0 ] [ 6 , 1 ] -----> False
Occupied fields : [ 6 , 1 ] [ 7 , 1 ] [ 6 , 2 ] -----> False
Occupied fields : [ 6 , 1 ] [ 5 , 1 ] [ 6 , 2 ] -----> False
Occupied fields : [ 6 , 2 ] [ 7 , 2 ] [ 6 , 3 ] -----> False
Occupied fields : [ 6 , 2 ] [ 5 , 2 ] [ 6 , 3 ] -----> False
Occupied fields : [ 6 , 3 ] [ 7 , 3 ] [ 6 , 4 ] -----> False
Occupied fields : [ 6 , 3 ] [ 5 , 3 ] [ 6 , 4 ] -----> False
Occupied fields : [ 6 , 4 ] [ 7 , 4 ] [ 6 , 5 ] -----> False
Occupied fields : [ 6 , 4 ] [ 5 , 4 ] [ 6 , 5 ] -----> False
Occupied fields : [ 6 , 5 ] [ 7 , 5 ] [ 6 , 6 ] -----> False
Occupied fields : [ 6 , 5 ] [ 5 , 5 ] [ 6 , 6 ] -----> False
Occupied fields : [ 6 , 6 ] [ 7 , 6 ] [ 6 , 7 ] -----> False
Occupied fields : [ 6 , 6 ] [ 5 , 6 ] [ 6 , 7 ] -----> False
Occupied fields : [ 6 , 7 ] [ 7 , 7 ] [ 6 , 8 ] -----> False
Occupied fields : [ 6 , 7 ] [ 5 , 7 ] [ 6 , 8 ] -----> False
Occupied fields : [ 6 , 8 ] [ 7 , 8 ] [ 6 , 9 ] -----> False
Occupied fields : [ 6 , 8 ] [ 5 , 8 ] [ 6 , 9 ] -----> False
Occupied fields : [ 6 , 9 ] [ 7 , 9 ] [ 6 , 10 ] -----> False
Occupied fields : [ 6 , 9 ] [ 5 , 9 ] [ 6 , 10 ] -----> False
Occupied fields : [ 6 , 10 ] [ 7 , 10 ] [ 6 , 11 ] -----> False
Occupied fields : [ 6 , 10 ] [ 5 , 10 ] [ 6 , 11 ] -----> False
Occupied fields : [ 6 , 11 ] [ 7 , 11 ] [ 6 , 12 ] -----> False

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```

Occupied fields : [ 6 , 11 ] [ 5 , 11 ] [ 6 , 12 ] -----> False
Occupied fields : [ 6 , 12 ] [ 7 , 12 ] [ 6 , 13 ] -----> False
Occupied fields : [ 6 , 12 ] [ 5 , 12 ] [ 6 , 13 ] -----> False
Occupied fields : [ 6 , 13 ] [ 7 , 13 ] [ 6 , 14 ] -----> False
Occupied fields : [ 6 , 13 ] [ 5 , 13 ] [ 6 , 14 ] -----> False
Occupied fields : [ 6 , 14 ] [ 7 , 14 ] [ 6 , 15 ] -----> False
Occupied fields : [ 6 , 14 ] [ 5 , 14 ] [ 6 , 15 ] -----> False
Occupied fields : [ 6 , 15 ] [ 7 , 15 ] [ 6 , 16 ] -----> False
Occupied fields : [ 6 , 15 ] [ 5 , 15 ] [ 6 , 16 ] -----> False
Occupied fields : [ 6 , 16 ] [ 7 , 16 ] [ 6 , 17 ] -----> False
Occupied fields : [ 6 , 16 ] [ 5 , 16 ] [ 6 , 17 ] -----> False
Occupied fields : [ 6 , 17 ] [ 7 , 17 ] [ 6 , 18 ] -----> False
Occupied fields : [ 6 , 17 ] [ 5 , 17 ] [ 6 , 18 ] -----> False
Occupied fields : [ 6 , 18 ] [ 7 , 18 ] [ 6 , 19 ] -----> False
Occupied fields : [ 6 , 18 ] [ 5 , 18 ] [ 6 , 19 ] -----> False
Occupied fields : [ 6 , 19 ] [ 7 , 19 ] [ 6 , 18 ] -----> False
Occupied fields : [ 6 , 19 ] [ 5 , 19 ] [ 6 , 18 ] -----> False
Occupied fields : [ 7 , 0 ] [ 8 , 0 ] [ 7 , 1 ] -----> False
Occupied fields : [ 7 , 0 ] [ 6 , 0 ] [ 7 , 1 ] -----> False
Occupied fields : [ 7 , 1 ] [ 8 , 1 ] [ 7 , 2 ] -----> False
Occupied fields : [ 7 , 1 ] [ 6 , 1 ] [ 7 , 2 ] -----> False
Occupied fields : [ 7 , 2 ] [ 8 , 2 ] [ 7 , 3 ] -----> False
Occupied fields : [ 7 , 2 ] [ 6 , 2 ] [ 7 , 3 ] -----> False
Occupied fields : [ 7 , 3 ] [ 8 , 3 ] [ 7 , 4 ] -----> False
Occupied fields : [ 7 , 3 ] [ 6 , 3 ] [ 7 , 4 ] -----> False
Occupied fields : [ 7 , 4 ] [ 8 , 4 ] [ 7 , 5 ] -----> False
Occupied fields : [ 7 , 4 ] [ 6 , 4 ] [ 7 , 5 ] -----> False
Occupied fields : [ 7 , 5 ] [ 8 , 5 ] [ 7 , 6 ] -----> False
Occupied fields : [ 7 , 5 ] [ 6 , 5 ] [ 7 , 6 ] -----> False
Occupied fields : [ 7 , 6 ] [ 8 , 6 ] [ 7 , 7 ] -----> False
Occupied fields : [ 7 , 6 ] [ 6 , 6 ] [ 7 , 7 ] -----> False
Occupied fields : [ 7 , 7 ] [ 8 , 7 ] [ 7 , 8 ] -----> False
Occupied fields : [ 7 , 7 ] [ 6 , 7 ] [ 7 , 8 ] -----> False
Occupied fields : [ 7 , 8 ] [ 8 , 8 ] [ 7 , 9 ] -----> False
Occupied fields : [ 7 , 8 ] [ 6 , 8 ] [ 7 , 9 ] -----> False
Occupied fields : [ 7 , 9 ] [ 8 , 9 ] [ 7 , 10 ] -----> False
Occupied fields : [ 7 , 9 ] [ 6 , 9 ] [ 7 , 10 ] -----> False
Occupied fields : [ 7 , 10 ] [ 8 , 10 ] [ 7 , 11 ] -----> False
Occupied fields : [ 7 , 10 ] [ 6 , 10 ] [ 7 , 11 ] -----> False
Occupied fields : [ 7 , 11 ] [ 8 , 11 ] [ 7 , 12 ] -----> False
Occupied fields : [ 7 , 11 ] [ 6 , 11 ] [ 7 , 12 ] -----> False
Occupied fields : [ 7 , 12 ] [ 8 , 12 ] [ 7 , 13 ] -----> False
Occupied fields : [ 7 , 12 ] [ 6 , 12 ] [ 7 , 13 ] -----> False
Occupied fields : [ 7 , 13 ] [ 8 , 13 ] [ 7 , 14 ] -----> False
Occupied fields : [ 7 , 13 ] [ 6 , 13 ] [ 7 , 14 ] -----> False
Occupied fields : [ 7 , 14 ] [ 8 , 14 ] [ 7 , 15 ] -----> False
Occupied fields : [ 7 , 14 ] [ 6 , 14 ] [ 7 , 15 ] -----> False
Occupied fields : [ 7 , 15 ] [ 8 , 15 ] [ 7 , 16 ] -----> False
Occupied fields : [ 7 , 15 ] [ 6 , 15 ] [ 7 , 16 ] -----> False
Occupied fields : [ 7 , 16 ] [ 8 , 16 ] [ 7 , 17 ] -----> False
Occupied fields : [ 7 , 16 ] [ 6 , 16 ] [ 7 , 17 ] -----> False

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```

Occupied fields : [ 7 , 17 ] [ 8 , 17 ] [ 7 , 18 ] -----> False
Occupied fields : [ 7 , 17 ] [ 6 , 17 ] [ 7 , 18 ] -----> False
Occupied fields : [ 7 , 18 ] [ 8 , 18 ] [ 7 , 19 ] -----> False
Occupied fields : [ 7 , 18 ] [ 6 , 18 ] [ 7 , 19 ] -----> False
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Occupied fields : [ 10 , 4 ] [ 11 , 4 ] [ 10 , 5 ] -----> False
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Occupied fields : [ 10 , 7 ] [ 11 , 7 ] [ 10 , 8 ] -----> False
Occupied fields : [ 10 , 7 ] [ 9 , 7 ] [ 10 , 8 ] -----> False
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[illegible]

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Occupied fields : [ 12 , 19 ] [ 13 , 19 ][ 12 , 18 ] -----> False
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Occupied fields : [ 17 , 2 ] [ 16 , 2 ][ 17 , 3 ] -----> False
Occupied fields : [ 17 , 3 ] [ 18 , 3 ][ 17 , 4 ] -----> False
Occupied fields : [ 17 , 3 ] [ 16 , 3 ][ 17 , 4 ] -----> False
Occupied fields : [ 17 , 4 ] [ 18 , 4 ][ 17 , 5 ] -----> False
Occupied fields : [ 17 , 4 ] [ 16 , 4 ][ 17 , 5 ] -----> False
Occupied fields : [ 17 , 5 ] [ 18 , 5 ][ 17 , 6 ] -----> False
Occupied fields : [ 17 , 5 ] [ 16 , 5 ][ 17 , 6 ] -----> False
Occupied fields : [ 17 , 6 ] [ 18 , 6 ][ 17 , 7 ] -----> False
Occupied fields : [ 17 , 6 ] [ 16 , 6 ][ 17 , 7 ] -----> False
Occupied fields : [ 17 , 7 ] [ 18 , 7 ][ 17 , 8 ] -----> False
Occupied fields : [ 17 , 7 ] [ 16 , 7 ][ 17 , 8 ] -----> False
Occupied fields : [ 17 , 8 ] [ 18 , 8 ][ 17 , 9 ] -----> False
Occupied fields : [ 17 , 8 ] [ 16 , 8 ][ 17 , 9 ] -----> False
Occupied fields : [ 17 , 9 ] [ 18 , 9 ][ 17 , 10 ] -----> False
Occupied fields : [ 17 , 9 ] [ 16 , 9 ][ 17 , 10 ] -----> False
Occupied fields : [ 17 , 10 ] [ 18 , 10 ][ 17 , 11 ] -----> False
Occupied fields : [ 17 , 10 ] [ 16 , 10 ][ 17 , 11 ] -----> False
Occupied fields : [ 17 , 11 ] [ 18 , 11 ][ 17 , 12 ] -----> False
Occupied fields : [ 17 , 11 ] [ 16 , 11 ][ 17 , 12 ] -----> False
Occupied fields : [ 17 , 12 ] [ 18 , 12 ][ 17 , 13 ] -----> False
Occupied fields : [ 17 , 12 ] [ 16 , 12 ][ 17 , 13 ] -----> False
Occupied fields : [ 17 , 13 ] [ 18 , 13 ][ 17 , 14 ] -----> False
Occupied fields : [ 17 , 13 ] [ 16 , 13 ][ 17 , 14 ] -----> False
Occupied fields : [ 17 , 14 ] [ 18 , 14 ][ 17 , 15 ] -----> False
Occupied fields : [ 17 , 14 ] [ 16 , 14 ][ 17 , 15 ] -----> False
Occupied fields : [ 17 , 15 ] [ 18 , 15 ][ 17 , 16 ] -----> False
Occupied fields : [ 17 , 15 ] [ 16 , 15 ][ 17 , 16 ] -----> False
Occupied fields : [ 17 , 16 ] [ 18 , 16 ][ 17 , 17 ] -----> False
Occupied fields : [ 17 , 16 ] [ 16 , 16 ][ 17 , 17 ] -----> False
Occupied fields : [ 17 , 17 ] [ 18 , 17 ][ 17 , 18 ] -----> False
Occupied fields : [ 17 , 17 ] [ 16 , 17 ][ 17 , 18 ] -----> False
Occupied fields : [ 17 , 18 ] [ 18 , 18 ][ 17 , 19 ] -----> False
Occupied fields : [ 17 , 18 ] [ 16 , 18 ][ 17 , 19 ] -----> False
Occupied fields : [ 17 , 19 ] [ 18 , 19 ][ 17 , 18 ] -----> False
Occupied fields : [ 17 , 19 ] [ 16 , 19 ][ 17 , 18 ] -----> False
Occupied fields : [ 18 , 0 ] [ 19 , 0 ][ 18 , 1 ] -----> False
Occupied fields : [ 18 , 0 ] [ 17 , 0 ][ 18 , 1 ] -----> False

```

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Nico Kotlenga: 634506

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Occupied fields : [ 18 , 1 ] [ 19 , 1 ] [ 18 , 2 ] -----> False
Occupied fields : [ 18 , 1 ] [ 17 , 1 ] [ 18 , 2 ] -----> False
Occupied fields : [ 18 , 2 ] [ 19 , 2 ] [ 18 , 3 ] -----> False
Occupied fields : [ 18 , 2 ] [ 17 , 2 ] [ 18 , 3 ] -----> False
Occupied fields : [ 18 , 3 ] [ 19 , 3 ] [ 18 , 4 ] -----> False
Occupied fields : [ 18 , 3 ] [ 17 , 3 ] [ 18 , 4 ] -----> False
Occupied fields : [ 18 , 4 ] [ 19 , 4 ] [ 18 , 5 ] -----> False
Occupied fields : [ 18 , 4 ] [ 17 , 4 ] [ 18 , 5 ] -----> False
Occupied fields : [ 18 , 5 ] [ 19 , 5 ] [ 18 , 6 ] -----> False
Occupied fields : [ 18 , 5 ] [ 17 , 5 ] [ 18 , 6 ] -----> False
Occupied fields : [ 18 , 6 ] [ 19 , 6 ] [ 18 , 7 ] -----> False
Occupied fields : [ 18 , 6 ] [ 17 , 6 ] [ 18 , 7 ] -----> False
Occupied fields : [ 18 , 7 ] [ 19 , 7 ] [ 18 , 8 ] -----> False
Occupied fields : [ 18 , 7 ] [ 17 , 7 ] [ 18 , 8 ] -----> False
Occupied fields : [ 18 , 8 ] [ 19 , 8 ] [ 18 , 9 ] -----> False
Occupied fields : [ 18 , 8 ] [ 17 , 8 ] [ 18 , 9 ] -----> False
Occupied fields : [ 18 , 9 ] [ 19 , 9 ] [ 18 , 10 ] -----> False
Occupied fields : [ 18 , 9 ] [ 17 , 9 ] [ 18 , 10 ] -----> False
Occupied fields : [ 18 , 10 ] [ 19 , 10 ] [ 18 , 11 ] -----> False
Occupied fields : [ 18 , 10 ] [ 17 , 10 ] [ 18 , 11 ] -----> False
Occupied fields : [ 18 , 11 ] [ 19 , 11 ] [ 18 , 12 ] -----> False
Occupied fields : [ 18 , 11 ] [ 17 , 11 ] [ 18 , 12 ] -----> False
Occupied fields : [ 18 , 12 ] [ 19 , 12 ] [ 18 , 13 ] -----> False
Occupied fields : [ 18 , 12 ] [ 17 , 12 ] [ 18 , 13 ] -----> False
Occupied fields : [ 18 , 13 ] [ 19 , 13 ] [ 18 , 14 ] -----> False
Occupied fields : [ 18 , 13 ] [ 17 , 13 ] [ 18 , 14 ] -----> False
Occupied fields : [ 18 , 14 ] [ 19 , 14 ] [ 18 , 15 ] -----> False
Occupied fields : [ 18 , 14 ] [ 17 , 14 ] [ 18 , 15 ] -----> False
Occupied fields : [ 18 , 15 ] [ 19 , 15 ] [ 18 , 16 ] -----> False
Occupied fields : [ 18 , 15 ] [ 17 , 15 ] [ 18 , 16 ] -----> False
Occupied fields : [ 18 , 16 ] [ 19 , 16 ] [ 18 , 17 ] -----> False
Occupied fields : [ 18 , 16 ] [ 17 , 16 ] [ 18 , 17 ] -----> False
Occupied fields : [ 18 , 17 ] [ 19 , 17 ] [ 18 , 18 ] -----> False
Occupied fields : [ 18 , 17 ] [ 17 , 17 ] [ 18 , 18 ] -----> False
Occupied fields : [ 18 , 18 ] [ 19 , 18 ] [ 18 , 19 ] -----> False
Occupied fields : [ 18 , 18 ] [ 17 , 18 ] [ 18 , 19 ] -----> False
Occupied fields : [ 18 , 19 ] [ 19 , 19 ] [ 18 , 18 ] -----> False
Occupied fields : [ 18 , 19 ] [ 17 , 19 ] [ 18 , 18 ] -----> False
Occupied fields : [ 19 , 0 ] [ 18 , 0 ] [ 19 , 1 ] -----> False
Occupied fields : [ 19 , 1 ] [ 18 , 1 ] [ 19 , 2 ] -----> False
Occupied fields : [ 19 , 2 ] [ 18 , 2 ] [ 19 , 3 ] -----> False
Occupied fields : [ 19 , 3 ] [ 18 , 3 ] [ 19 , 4 ] -----> False
Occupied fields : [ 19 , 4 ] [ 18 , 4 ] [ 19 , 5 ] -----> False
Occupied fields : [ 19 , 5 ] [ 18 , 5 ] [ 19 , 6 ] -----> False
Occupied fields : [ 19 , 6 ] [ 18 , 6 ] [ 19 , 7 ] -----> False
Occupied fields : [ 19 , 7 ] [ 18 , 7 ] [ 19 , 8 ] -----> False
Occupied fields : [ 19 , 8 ] [ 18 , 8 ] [ 19 , 9 ] -----> False
Occupied fields : [ 19 , 9 ] [ 18 , 9 ] [ 19 , 10 ] -----> False
Occupied fields : [ 19 , 10 ] [ 18 , 10 ] [ 19 , 11 ] -----> False
Occupied fields : [ 19 , 11 ] [ 18 , 11 ] [ 19 , 12 ] -----> False
Occupied fields : [ 19 , 12 ] [ 18 , 12 ] [ 19 , 13 ] -----> False

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Nico Kotlenga: 634506

```

Occupied fields : [ 19 , 13 ] [ 18 , 13 ] [ 19 , 14 ] -----> False
Occupied fields : [ 19 , 14 ] [ 18 , 14 ] [ 19 , 15 ] -----> False
Occupied fields : [ 19 , 15 ] [ 18 , 15 ] [ 19 , 16 ] -----> False
Occupied fields : [ 19 , 16 ] [ 18 , 16 ] [ 19 , 17 ] -----> False
Occupied fields : [ 19 , 17 ] [ 18 , 17 ] [ 19 , 18 ] -----> False
Occupied fields : [ 19 , 18 ] [ 18 , 18 ] [ 19 , 19 ] -----> False
Occupied fields : [ 19 , 19 ] [ 18 , 19 ] [ 19 , 18 ] -----> False

```

—> Aus dem Test kann man entnehmen, dass die verschiedenen Belegungen richtig interpretiert werden, wodurch für den folgenden Test die richtige Funktionsweise von `__check_for_win_of` vorausgesetzt werden kann.

### Test der Methode “is\_game\_finish”

Diese Methode ruft die Methode `__check_for_win_of` aus, wessen korrekte Funktionsweise bereits durch den vorherigen Test bewiesen wurde.

Die Methode dient zur Abfrage, ob das Spiel beendet wurde. Als Rückgabewert wird die 0 für kein Spieler hat gewonnen, die 1 für Spieler 1 hat gewonnen und die 2 für Spieler 2 hat gewonnen genutzt.

Bei diesem Test wird der Glass-Box-Test verwendet. Es wird also versucht, alle möglichen Verzweigungen aufzurufen.

Dadurch ergeben sich drei verschiedene Testfälle:

-An die Methode wird ein Spielfeld übergeben, in welchem kein Spieler ein Sieg erzielt. Der erwartete Rückgabewert ist die 0

-An die Methode wird ein Spielfeld übergeben, in welchem Spieler 1 ein Sieg erzielt. Der erwartete Rückgabewert ist die 1

-An die Methode wird ein Spielfeld übergeben, in welchem Spieler 2 ein Sieg erzielt. Der erwartete Rückgabewert ist die 2

*Ergebnis des Tests:*

```

Checking functionality of is_game_finish.....
No one has won the game ---> 0
Player one has won the game ---> 1
Player two has won the game ---> 2

```

Aus dem Test kann man schlussfolgern, dass die Methode funktioniert, wodurch der Test des Moduls beendet ist.