# Threats migration

Threats are your or yours adversary's moves that may lead to build 'five in a row'.

Threats and its value were defined on authors' personal experience and are as following:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **name** | **definition** | | **value** | **comment** |
| **└** | **┘** |
| 0 | THREAT\_WINNER | \*xxxxx\* | n.a |  |  |
| 1 | THREAT\_4\_CASE\_A | .xxxx. | n.a |  |  |
| 2 | THREAT\_4\_CASE\_AA | .xxx.x.  .x.xxx.  .xx.xx.  .x.xxx. | n.a |  | Weaker subclass of case THREAT\_4\_CASE\_A |
| 3 | THREAT\_4\_CASE\_B | ox.xxx\*  oxx.xx\*  oxxx.x\*  oxxxx.\* | \*xxx.xo  \*xx.xxo  \*x.xxxo  \*.xxxxo |  |  |
| 4 | THREAT\_4\_CASE\_C | o.xxxxo  ox.xxxo  oxx.xxo  oxxx.xo  oxxxx.o | n.a |  |  |
| 5 | THREAT\_3\_CASE\_A | .xxx..\*  .xx.x.\*  .x.xx.\*  ..xxx.\* | \*..xxx.  \*.x.xx.  \*.xx.x.  \*.xxx.. |  |  |
| 6 | THREAT\_3\_CASE\_AA | .x.x.x.  .x..xx.  .xx..x. | n.a |  | Weaker subclass of case THREAT\_3\_CASE\_A |
| 7 | THREAT\_3\_CASE\_B | oxxx..\*  oxx.x.\*  ox.xx.\*  ox.x.x\*  ox..xx\* | \*..xxxo  \*.x.xxo  \*.xx.xo  \*x.x.xo  \*x..xxo |  |  |
| 8 | THREAT\_3\_CASE\_C | oxxx..o  oxx.x.o  ox.xx.o  o.xxx.o  o.xx.xo  o.x.xxo  o..xxxo  ox..xxo | n.a |  |  |
| 9 | THREAT\_2\_CASE\_A | .xx...\*  .x.x..\*  .x..x.\*  ..xx..\*  ..x.x.\*  ...xx.\* | \*...xx.  \*..x.x.  \*..xx..  \*.x..x.  \*.x.x..  \*.xx... |  |  |
| 10 | THREAT\_2\_CASE\_AA | .x...x. | n.a |  | Weaker subclass of case THREAT\_2\_CASE\_A |
| 11 | THREAT\_2\_CASE\_B | oxx...\*  ox.x..\*  ox..x.\*  ox...x\* | \*x...xo  \*.x..xo  \*..x.xo  \*...xxo |  |  |
| 12 | THREAT\_2\_CASE\_C | oxx...o  o.xx..o  o..xx.o  o...xxo  ox.x..o  o.x.x.o  ox...xo | n.a |  |  |

Table : Threats definition for player X. Analogous for player O.

For **X** player point of view:

* **x** ─ my move
* **o** ─ adversary move
* **.** ─ empty space (gap)
* **\*** ─ empty space or adversary's move. Used to prevent build 'six in a row'. Separation marks.

# Threats migration

While building 'five in a row' player's threat must go thru certain stages:

THREAT\_2 → THREAT\_3→ THREAT\_4→ THREAT\_WINNER

That is called a threat **promotion**. There can be opposite direction when adversary destroys our threat's strength:

THREAT\_2 ← THREAT\_3← THREAT\_4

That is called threat **dismissal**. Generally it's shown on figure 1.

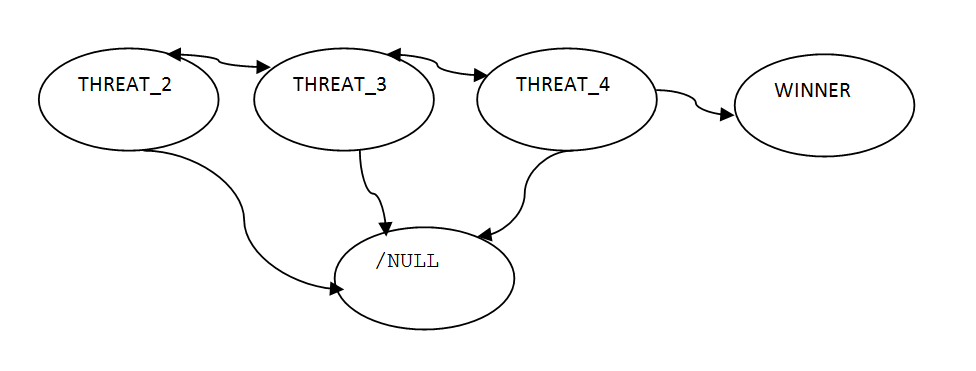


Figure : Threat migration

Certain threat can migrate to another certain threat. Like Threat4CaseA can be dismissed to Threat4CaseB but not to ex. Threat2CaseA.

Below it is shown migration in details.

* **Dismissal**

**winner**-> x

**Threat4CaseA**-> Threat4CaseB

**Threat4CaseAA**-> Threat4CaseB, Threat3CaseB, Threat2CaseB

**Threat4CaseB**-> Threat4CaseC, Threat3CaseB, Threat2CaseB

**Threat4CaseC**-> x

**Threat3CaseA**-> Threat3CaseA, Threat3CaseB, Threat3CaseC, Threat2CaseB

**Threat3CaseAA**-> Threat3CaseB, Threat2CaseB, Threat2CaseA

**Threat3CaseB**-> Threat3CaseC, Threat2CaseA, Threat2CaseB

**Threat3CaseC**-> x

**Threat2CaseA**-> Threat2CaseA, Threat2CaseB, Threat2CaseC

**Threat2CaseAA**-> Threat2CaseB

**Threat2CaseB**-> Threat2CaseC

**Threat2CaseC**-> x

* **Promotion**

**winner**-> x

**Threat4CaseA**-> winner

**Threat4CaseAA**-> winner

**Threat4CaseB**-> winner

**Threat4CaseC**-> winner

**Threat3CaseA**-> Threat4CaseA, Threat4CaseAA, Threat4CaseB, Threat3CaseA

**Threat3CaseAA**-> Threat4CaseAA, Threat3CaseA, Threat2CaseA

**Threat3CaseB**-> Threat4CaseB, Threat3CaseA

**Threat3CaseC**-> Threat4CaseC

**Threat2CaseA**-> Threat3CaseA, Threat3CaseAA, Threat3CaseB, Threat2CaseA

**Threat2CaseAA**-> Threat3CaseAA, Threat2CaseA, Threat2CaseB

**Threat2CaseB**-> Threat3CaseB, Threat3CaseC, Threat2CaseA

**Threat2CaseC**-> Threat3CaseC

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 4 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 6 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 7 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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|  | **\*** | | | | | | | **.** | | | | | | | **o** | | | | | | | **x** | | | | | | | **\*** | | | | | | | **.** | | | | | | | **o** | | | | | | | **x** | | | | | | |
| 0 | 1 |  |  |  |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 1 | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2 | 1 |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3 | 1 |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 4 | 1 |  |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5 | 1 |  |  |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 6 | 1 |  |  |  |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Must match exactly | | | | | | | n.a | | | | | | | n.a | | | | | | | Must be 5. Position doesn't matter | | | | | | |  | | | | | | |  | | | | | | |  | | | | | | |  | | | | | | |

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|  | **\*** | | | | | | | **.** | | | | | | | **o** | | | | | | | **x** | | | | | | | **\*** | | | | | | | **.** | | | | | | | **o** | | | | | | | **x** | | | | | | |
| 0 | 1 |  |  |  |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 1 | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2 | 1 |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3 | 1 |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 4 | 1 |  |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5 | 1 |  |  |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 6 | 1 |  |  |  |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Must match exactly | | | | | | | n.a | | | | | | | Must be 5. Position doesn't matter | | | | | | | n.a | | | | | | |  | | | | | | |  | | | | | | |  | | | | | | |  | | | | | | |

Table : Winner

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| **.xxxx.** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | **n.a** | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | **\*** | | | | | | | **.** | | | | | | | **o** | | | | | | | **x** | | | | | | | **\*** | | | | | | | **.** | | | | | | | **o** | | | | | | | **x** | | | | | | |
| 0 |  |  |  |  |  |  |  |  | 1 |  |  |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 |  |  |  |  |  |  |  |  | 1 | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2 |  |  |  |  |  |  |  |  | 1 |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3 |  |  |  |  |  |  |  |  | 1 |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 4 |  |  |  |  |  |  |  |  | 1 |  |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5 |  |  |  |  |  |  |  |  | 1 |  |  |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | n.a | | | | | | | Must match exactly | | | | | | | n.a | | | | | | | Must be 4. Position doesn't matter | | | | | | |  | | | | | | |  | | | | | | |  | | | | | | |  | | | | | | |

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| **.oooo.** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | **n.a** | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | **\*** | | | | | | | **.** | | | | | | | **o** | | | | | | | **x** | | | | | | | **\*** | | | | | | | **.** | | | | | | | **o** | | | | | | | **x** | | | | | | |
| 0 |  |  |  |  |  |  |  |  | 1 |  |  |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 |  |  |  |  |  |  |  |  | 1 | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2 |  |  |  |  |  |  |  |  | 1 |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3 |  |  |  |  |  |  |  |  | 1 |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 4 |  |  |  |  |  |  |  |  | 1 |  |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5 |  |  |  |  |  |  |  |  | 1 |  |  |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | n.a | | | | | | | Must match exactly | | | | | | | Must be 4. Position doesn't matter | | | | | | | n.a | | | | | | |  | | | | | | |  | | | | | | |  | | | | | | |  | | | | | | |

Table : Threat4CaseA

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **.xxx.x.**  **.x.xxx.**  **.xx.xx.**  **.x.xxx.** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | **n.a** | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | **\*** | | | | | | | **.** | | | | | | | **o** | | | | | | | **x** | | | | | | | **\*** | | | | | | | **.** | | | | | | | **o** | | | | | | | **x** | | | | | | |
| 0 |  |  |  |  |  |  |  | 1 |  |  |  |  |  | 1 |  |  |  |  |  |  |  |  | 1 |  |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 |  |  |  |  |  |  |  | 1 | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |  |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2 |  |  |  |  |  |  |  | 1 |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  | 1 |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3 |  |  |  |  |  |  |  | 1 |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  | 1 |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 4 |  |  |  |  |  |  |  | 1 |  |  |  | 1 |  |  |  |  |  |  |  |  |  |  | 1 |  |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5 |  |  |  |  |  |  |  | 1 |  |  |  |  | 1 |  |  |  |  |  |  |  |  |  | 1 |  |  |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 6 |  |  |  |  |  |  |  | 1 |  |  |  |  |  | 1 |  |  |  |  |  |  |  |  | 1 |  |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | n.a | | | | | | | Must be 3 and must match on specified positions. | | | | | | | Must be zero found | | | | | | | Must be 4 and must occur on specified positions. | | | | | | |  | | | | | | |  | | | | | | |  | | | | | | |  | | | | | | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **.ooo.o.**  **.o.ooo.**  **.oo.oo.**  **.o.ooo.** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | **n.a** | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | **\*** | | | | | | | **.** | | | | | | | **o** | | | | | | | **x** | | | | | | | **\*** | | | | | | | **.** | | | | | | | **o** | | | | | | | **x** | | | | | | |
| 0 |  |  |  |  |  |  |  | 1 |  |  |  |  |  | 1 |  | 1 |  |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 |  |  |  |  |  |  |  | 1 | 1 |  |  |  |  |  |  |  | 1 |  |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2 |  |  |  |  |  |  |  | 1 |  | 1 |  |  |  |  |  | 1 |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3 |  |  |  |  |  |  |  | 1 |  |  | 1 |  |  |  |  | 1 |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 4 |  |  |  |  |  |  |  | 1 |  |  |  | 1 |  |  |  | 1 |  |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5 |  |  |  |  |  |  |  | 1 |  |  |  |  | 1 |  |  | 1 |  |  |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 6 |  |  |  |  |  |  |  | 1 |  |  |  |  |  | 1 |  | 1 |  |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | n.a | | | | | | | Must be 3 and must match on specified positions. | | | | | | | Must be 4 and must occur on specified positions. | | | | | | | Must be zero found | | | | | | |  | | | | | | |  | | | | | | |  | | | | | | |  | | | | | | |

Table : Threat4CaseAA

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **o.xxxxo**  **ox.xxxo**  **oxx.xxo**  **oxxx.xo**  **oxxxx.o** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | **n.a** | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | **\*** | | | | | | | **.** | | | | | | | **o** | | | | | | | **x** | | | | | | | **\*** | | | | | | | **.** | | | | | | | **o** | | | | | | | **x** | | | | | | |
| 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |  |  |  |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 4 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |  |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |  |  |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 6 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |  |  |  |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | n.a | | | | | | | Must be 1. Position doesn't matter | | | | | | | Must match exactly | | | | | | | Must be 4. Position doesn't matter | | | | | | |  | | | | | | |  | | | | | | |  | | | | | | |  | | | | | | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **x.oooox**  **xo.ooox**  **xoo.oox**  **xooo.ox**  **xoooo.x** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | **n.a** | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | **\*** | | | | | | | **.** | | | | | | | **o** | | | | | | | **x** | | | | | | | **\*** | | | | | | | **.** | | | | | | | **o** | | | | | | | **x** | | | | | | |
| 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |  |  |  |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 4 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |  |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |  |  |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 6 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |  |  |  |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | n.a | | | | | | | Must be 1. Position doesn't matter | | | | | | | Must be 4. Position doesn't matter | | | | | | | Must match exactly | | | | | | |  | | | | | | |  | | | | | | |  | | | | | | |  | | | | | | |

Table : Threat4CaseC

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **ox.xxx\***  **oxx.xx\***  **oxxx.x\***  **oxxxx.\*** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | **\*xxx.xo**  **\*xx.xxo**  **\*x.xxxo**  **\*.xxxxo** | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | **\*** | | | | | | | **.** | | | | | | | **o** | | | | | | | **x** | | | | | | | **\*** | | | | | | | **.** | | | | | | | **o** | | | | | | | **x** | | | | | | |
| 0 | 1 |  |  |  |  |  |  |  | 1 | 1 | 1 | 1 |  |  |  |  |  |  |  |  | 1 |  |  |  |  |  | 1 |  |  |  |  |  |  |  | 1 |  |  | 1 | 1 | 1 | 1 |  | 1 |  |  |  |  |  |  |  | 1 |  |  |  |  |  |
| 1 |  | 1 |  |  |  |  |  |  |  | 1 | 1 | 1 | 1 |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  | 1 | 1 |  |  |  |  |  |  |  |  |  | 1 | 1 | 1 | 1 |  | 1 |  |  |  |  |  |  |  | 1 |  |  |  |  |
| 2 |  |  | 1 |  |  |  |  |  |  |  | 1 | 1 | 1 | 1 | 1 |  |  |  |  |  |  |  | 1 |  |  |  |  |  | 1 |  |  |  |  |  |  |  | 1 |  |  | 1 | 1 | 1 |  |  | 1 |  |  |  |  |  |  |  | 1 |  |  |  |
| 3 |  |  |  | 1 |  |  |  |  |  | 1 |  | 1 | 1 | 1 | 1 |  |  |  |  |  |  |  | 1 |  |  |  |  |  | 1 |  |  |  |  |  |  |  | 1 | 1 |  |  | 1 | 1 |  |  |  | 1 |  |  |  |  |  |  |  | 1 |  |  |
| 4 |  |  |  |  | 1 |  |  |  |  | 1 | 1 |  | 1 | 1 | 1 |  |  |  |  |  |  |  | 1 |  |  |  |  |  | 1 |  |  |  |  |  |  |  | 1 | 1 | 1 |  |  | 1 |  |  |  |  | 1 |  |  |  |  |  |  |  | 1 |  |
| 5 |  |  |  |  |  | 1 |  |  |  | 1 | 1 | 1 |  | 1 | 1 |  |  |  |  |  |  |  | 1 |  |  |  |  |  | 1 |  |  |  |  |  |  |  | 1 | 1 | 1 | 1 |  |  |  |  |  |  |  | 1 |  |  |  |  |  |  |  | 1 |
| 6 |  |  |  |  |  |  | 1 |  |  | 1 | 1 | 1 | 1 |  | 1 |  |  |  |  |  |  |  | 1 |  |  |  |  |  | 1 |  |  |  |  |  |  |  | 1 | 1 | 1 | 1 |  |  |  |  |  |  |  |  | 1 |  |  |  |  |  | 1 |  |
|  | Must be set on specified position | | | | | | | Only on these positions gaps is allowed to occur.  This is a mask. | | | | | | | Must be set on specified position | | | | | | | Must be 4 and mask must match . | | | | | | | Must be set on specified position | | | | | | | Only on these positions gaps is allowed to occur.  This is a mask. | | | | | | | Must be set on specified position | | | | | | | Must be 4 and mask must match . | | | | | | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **xo.ooo\***  **xoo.oo\***  **xooo.o\***  **xoooo.\*** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | **\*ooo.ox**  **\*oo.oox**  **\*o.ooox**  **\*.oooox** | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | **\*** | | | | | | | **.** | | | | | | | **o** | | | | | | | **x** | | | | | | | **\*** | | | | | | | **.** | | | | | | | **o** | | | | | | | **x** | | | | | | |
| 0 | 1 |  |  |  |  |  |  |  | 1 | 1 | 1 | 1 |  |  |  |  |  |  |  | 1 |  |  |  |  |  |  |  | 1 |  |  |  |  |  |  | 1 |  |  | 1 | 1 | 1 | 1 |  |  | 1 |  |  |  |  |  | 1 |  |  |  |  |  |  |
| 1 |  | 1 |  |  |  |  |  |  |  | 1 | 1 | 1 | 1 |  |  |  |  |  |  |  | 1 | 1 |  |  |  |  |  |  | 1 |  |  |  |  |  |  |  |  |  | 1 | 1 | 1 | 1 |  |  | 1 |  |  |  |  |  | 1 |  |  |  |  |  |
| 2 |  |  | 1 |  |  |  |  |  |  |  | 1 | 1 | 1 | 1 |  | 1 |  |  |  |  |  | 1 |  |  |  |  |  |  | 1 |  |  |  |  |  |  |  | 1 |  |  | 1 | 1 | 1 |  |  |  | 1 |  |  |  |  |  | 1 |  |  |  |  |
| 3 |  |  |  | 1 |  |  |  |  |  | 1 |  | 1 | 1 | 1 |  | 1 |  |  |  |  |  | 1 |  |  |  |  |  |  | 1 |  |  |  |  |  |  |  | 1 | 1 |  |  | 1 | 1 |  |  |  |  | 1 |  |  |  |  |  | 1 |  |  |  |
| 4 |  |  |  |  | 1 |  |  |  |  | 1 | 1 |  | 1 | 1 |  | 1 |  |  |  |  |  | 1 |  |  |  |  |  |  | 1 |  |  |  |  |  |  |  | 1 | 1 | 1 |  |  | 1 |  |  |  |  |  | 1 |  |  |  |  |  | 1 |  |  |
| 5 |  |  |  |  |  | 1 |  |  |  | 1 | 1 | 1 |  | 1 |  | 1 |  |  |  |  |  | 1 |  |  |  |  |  |  | 1 |  |  |  |  |  |  |  | 1 | 1 | 1 | 1 |  |  |  |  |  |  |  |  | 1 |  |  |  |  |  | 1 |  |
| 6 |  |  |  |  |  |  | 1 |  |  | 1 | 1 | 1 | 1 |  |  | 1 |  |  |  |  |  | 1 |  |  |  |  |  |  | 1 |  |  |  |  |  |  |  | 1 | 1 | 1 | 1 |  |  |  |  |  |  |  | 1 |  |  |  |  |  |  |  | 1 |
|  | Must be set on specified position | | | | | | | Only on these positions gaps is allowed to occur.  This is a mask. | | | | | | | Must be 4 and mask must match . | | | | | | | Must be set on specified position | | | | | | | Must be set on specified position | | | | | | | Only on these positions gaps is allowed to occur.  This is a mask. | | | | | | | Must be 4 and mask must match . | | | | | | | Must be set on specified position | | | | | | |

Table : Threat4CaseB

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **\*..xxx.**  **\*.x.xx.**  **\*.xx.x.**  **\*.xxx..** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | **..xxx.\***  **.x.xx.\***  **.xx.x.\***  **.xxx..\*** | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | **\*** | | | | | | | | **.** | | | | | | | | **o** | | | | | | | | **x** | | | | | | | | **\*** | | | | | | | | **.** | | | | | | | **o** | | | | | | | **x** | | | | | | |
| 0 |  |  |  |  |  |  |  | 1 |  | 1 |  |  |  |  | 1 |  |  |  | 1 | 1 | 1 | 1 |  |  |  |  |  |  |  |  |  |  |  | 1 |  |  |  |  |  |  |  | 1 |  |  |  |  | 1 |  |  | 1 | 1 | 1 | 1 |  |  |  |  |  |  |  |  |
| 1 |  | 1 |  |  |  |  |  |  |  |  | 1 |  |  |  |  | 1 |  |  |  | 1 | 1 | 1 | 1 |  |  |  |  |  |  |  |  |  |  |  | 1 |  |  |  |  |  | 1 |  | 1 |  |  |  |  |  |  |  | 1 | 1 | 1 | 1 |  |  |  |  |  |  |  |
| 2 |  | 1 |  |  |  |  |  |  |  |  | 1 | 1 |  |  |  |  |  |  |  |  | 1 | 1 | 1 | 1 |  |  |  |  |  |  |  |  |  |  |  | 1 |  |  |  |  | 1 |  |  | 1 |  |  |  |  | 1 |  |  | 1 | 1 | 1 |  |  |  |  |  |  |  |
| 3 |  | 1 |  |  |  |  |  |  |  |  | 1 |  | 1 |  |  |  |  |  |  | 1 |  | 1 | 1 | 1 |  |  |  |  |  |  |  |  |  |  |  |  | 1 |  |  |  | 1 |  |  |  | 1 |  |  |  | 1 | 1 |  |  | 1 | 1 |  |  |  |  |  |  |  |
| 4 |  | 1 |  |  |  |  |  |  |  |  | 1 |  |  | 1 |  |  |  |  |  | 1 | 1 |  | 1 | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |  |  | 1 |  |  |  |  | 1 |  |  | 1 | 1 | 1 |  |  | 1 |  |  |  |  |  |  |  |
| 5 |  | 1 |  |  |  |  |  |  |  |  | 1 |  |  |  | 1 |  |  |  |  | 1 | 1 | 1 |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |  | 1 |  |  |  |  |  | 1 |  | 1 | 1 | 1 | 1 |  |  |  |  |  |  |  |  |  |
| 6 |  | 1 |  |  |  |  |  |  |  |  | 1 |  |  |  |  | 1 |  |  |  | 1 | 1 | 1 | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 | 1 |  |  |  |  | 1 |  |  | 1 | 1 | 1 | 1 |  |  |  |  |  |  |  |  |  |
|  | Must match exactly | | | | | | | | Must match exactly | | | | | | | | On marked positions there must not be enemy pawns | | | | | | | | Must be 3 found | | | | | | | | Must match exactly | | | | | | | | Must match exactly | | | | | | | On marked positions there must not be enemy pawns | | | | | | | Must be 3 found | | | | | | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **\*..ooo.**  **\*.o.oo.**  **\*.oo.o.**  **\*.ooo..** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | **..ooo.\***  **.o.oo.\***  **.oo.o.\***  **.ooo..\*** | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | **\*** | | | | | | | | **.** | | | | | | | | **o** | | | | | | | | **x** | | | | | | | | **\*** | | | | | | | | **.** | | | | | | | **o** | | | | | | | **x** | | | | | | |
| 0 |  |  |  |  |  |  |  | 1 |  | 1 |  |  |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  | 1 | 1 | 1 | 1 |  |  |  | 1 |  |  |  |  |  |  |  | 1 |  |  |  |  | 1 |  |  |  |  |  |  |  |  |  | 1 | 1 | 1 | 1 |  |
| 1 |  | 1 |  |  |  |  |  |  |  |  | 1 |  |  |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  | 1 | 1 | 1 | 1 |  |  |  | 1 |  |  |  |  |  | 1 |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 | 1 | 1 | 1 |
| 2 |  | 1 |  |  |  |  |  |  |  |  | 1 | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 | 1 | 1 | 1 |  |  |  | 1 |  |  |  |  | 1 |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  | 1 |  |  | 1 | 1 | 1 |
| 3 |  | 1 |  |  |  |  |  |  |  |  | 1 |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |  | 1 | 1 | 1 |  |  |  |  | 1 |  |  |  | 1 |  |  |  | 1 |  |  |  |  |  |  |  |  |  |  | 1 | 1 |  |  | 1 | 1 |
| 4 |  | 1 |  |  |  |  |  |  |  |  | 1 |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 | 1 |  | 1 | 1 |  |  |  |  |  | 1 |  |  | 1 |  |  |  |  | 1 |  |  |  |  |  |  |  |  |  | 1 | 1 | 1 |  |  | 1 |
| 5 |  | 1 |  |  |  |  |  |  |  |  | 1 |  |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  | 1 | 1 | 1 |  | 1 |  |  |  |  |  |  | 1 |  | 1 |  |  |  |  |  | 1 |  |  |  |  |  |  |  |  | 1 | 1 | 1 | 1 |  |  |
| 6 |  | 1 |  |  |  |  |  |  |  |  | 1 |  |  |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  | 1 | 1 | 1 | 1 |  |  |  |  |  |  |  |  | 1 | 1 |  |  |  |  | 1 |  |  |  |  |  |  |  |  |  | 1 | 1 | 1 | 1 |  |  |
|  | Must match exactly | | | | | | | | Must match exactly | | | | | | | | Must be 3 found | | | | | | | | On marked positions there must not be enemy pawns | | | | | | | | Must match exactly | | | | | | | | Must match exactly | | | | | | | Must be 3 found | | | | | | | On marked positions there must not be enemy pawns | | | | | | |

Table : Threat3CaseA

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **.x.x.x.**  **.x..xx.**  **.xx..x.** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | **n.a** | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | **\*** | | | | | | | | **.** | | | | | | | | **o** | | | | | | | | **x** | | | | | | | |  | | | | | | | |  | | | | | | |  | | | | | | |  | | | | | | |
| 0 |  |  |  |  |  |  |  |  |  | 1 |  |  |  |  |  | 1 |  |  |  |  |  |  |  |  |  |  | 1 |  |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 |  |  |  |  |  |  |  |  |  | 1 | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |  |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2 |  |  |  |  |  |  |  |  |  | 1 |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3 |  |  |  |  |  |  |  |  |  | 1 |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 4 |  |  |  |  |  |  |  |  |  | 1 |  |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  | 1 |  |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5 |  |  |  |  |  |  |  |  |  | 1 |  |  |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  | 1 |  |  |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 6 |  |  |  |  |  |  |  |  |  | 1 |  |  |  |  |  | 1 |  |  |  |  |  |  |  |  |  |  | 1 |  |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | n.a | | | | | | | | Must match exactly. | | | | | | | | Must be 0 | | | | | | | | Must be 3 and on specified positions. | | | | | | | |  | | | | | | | |  | | | | | | |  | | | | | | |  | | | | | | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **.o.o.o.**  **.o..oo.**  **.oo..o.** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | **n.a** | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | **\*** | | | | | | | | **.** | | | | | | | | **o** | | | | | | | | **x** | | | | | | | |  | | | | | | | |  | | | | | | |  | | | | | | |  | | | | | | |
| 0 |  |  |  |  |  |  |  |  |  | 1 |  |  |  |  |  | 1 |  |  | 1 |  |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 |  |  |  |  |  |  |  |  |  | 1 | 1 |  |  |  |  |  |  |  |  | 1 |  |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2 |  |  |  |  |  |  |  |  |  | 1 |  | 1 |  |  |  |  |  |  | 1 |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3 |  |  |  |  |  |  |  |  |  | 1 |  |  | 1 |  |  |  |  |  | 1 |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 4 |  |  |  |  |  |  |  |  |  | 1 |  |  |  | 1 |  |  |  |  | 1 |  |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5 |  |  |  |  |  |  |  |  |  | 1 |  |  |  |  | 1 |  |  |  | 1 |  |  |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 6 |  |  |  |  |  |  |  |  |  | 1 |  |  |  |  |  | 1 |  |  | 1 |  |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | n.a | | | | | | | | Must match exactly. | | | | | | | | Must be 3 and on specified positions. | | | | | | | | Must be 0 | | | | | | | |  | | | | | | | |  | | | | | | |  | | | | | | |  | | | | | | |

Table : Threat3CaseAA

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **oxxx..o**  **oxx.x.o**  **ox.xx.o**  **o.xxx.o**  **o.xx.xo**  **o.x.xxo**  **o..xxxo**  **ox..xxo** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | **n.a** | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | **\*** | | | | | | | | **.** | | | | | | | | **o** | | | | | | | | **x** | | | | | | | | **\*** | | | | | | | **.** | | | | | | | **o** | | | | | | | **x** | | | | | | |
| 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |  |  |  |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 4 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |  |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |  |  |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 6 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |  |  |  |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | n.a | | | | | | | | Must be 2. Position doesn't matter | | | | | | | | Must match exactly | | | | | | | | Must be 3. Position doesn't matter | | | | | | | |  | | | | | | |  | | | | | | |  | | | | | | |  | | | | | | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **xooo..x**  **xoo.o.x**  **xo.oo.x**  **x.ooo.x**  **x.oo.ox**  **x.o.oox**  **x..ooox**  **xo..oox** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | **n.a** | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | **\*** | | | | | | | | **.** | | | | | | | | **o** | | | | | | | | **x** | | | | | | | | **\*** | | | | | | | **.** | | | | | | | **o** | | | | | | | **x** | | | | | | |
| 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |  |  |  |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 4 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |  |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |  |  |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 6 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |  |  |  |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | n.a | | | | | | | | Must be 2. Position doesn't matter | | | | | | | | Must be 3. Position doesn't matter | | | | | | | | Must match exactly | | | | | | | |  | | | | | | |  | | | | | | |  | | | | | | |  | | | | | | |

Table : Threat3CaseC

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **oxxx..\***  **oxx.x.\***  **ox.xx.\***  **ox.x.x\***  **ox..xx\*** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | **\*..xxxo**  **\*.x.xxo**  **\*.xx.xo**  **\*x.x.xo**  **\*x..xxo** | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | **\*** | | | | | | | **.** | | | | | | | **o** | | | | | | | **x** | | | | | | | **\*** | | | | | | | **.** | | | | | | | **o** | | | | | | | **x** | | | | | | |
| 0 | 1 |  |  |  |  |  |  |  | 1 | 1 | 1 | 1 |  |  |  |  |  |  |  |  | 1 |  |  |  |  |  | 1 |  |  |  |  |  |  |  | 1 |  |  | 1 | 1 | 1 | 1 |  | 1 |  |  |  |  |  |  |  | 1 |  |  |  |  |  |
| 1 |  | 1 |  |  |  |  |  |  |  | 1 | 1 | 1 | 1 |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  | 1 | 1 |  |  |  |  |  |  |  |  |  | 1 | 1 | 1 | 1 |  | 1 |  |  |  |  |  |  |  | 1 |  |  |  |  |
| 2 |  |  | 1 |  |  |  |  |  |  |  | 1 | 1 | 1 | 1 | 1 |  |  |  |  |  |  |  | 1 |  |  |  |  |  | 1 |  |  |  |  |  |  |  | 1 |  |  | 1 | 1 | 1 |  |  | 1 |  |  |  |  |  |  |  | 1 |  |  |  |
| 3 |  |  |  | 1 |  |  |  |  |  | 1 |  | 1 | 1 | 1 | 1 |  |  |  |  |  |  |  | 1 |  |  |  |  |  | 1 |  |  |  |  |  |  |  | 1 | 1 |  |  | 1 | 1 |  |  |  | 1 |  |  |  |  |  |  |  | 1 |  |  |
| 4 |  |  |  |  | 1 |  |  |  |  | 1 | 1 |  | 1 | 1 | 1 |  |  |  |  |  |  |  | 1 |  |  |  |  |  | 1 |  |  |  |  |  |  |  | 1 | 1 | 1 |  |  | 1 |  |  |  |  | 1 |  |  |  |  |  |  |  | 1 |  |
| 5 |  |  |  |  |  | 1 |  |  |  | 1 | 1 | 1 |  | 1 | 1 |  |  |  |  |  |  |  | 1 |  |  |  |  |  | 1 |  |  |  |  |  |  |  | 1 | 1 | 1 | 1 |  |  |  |  |  |  |  | 1 |  |  |  |  |  |  |  | 1 |
| 6 |  |  |  |  |  |  | 1 |  |  | 1 | 1 | 1 | 1 |  | 1 |  |  |  |  |  |  |  | 1 |  |  |  |  |  | 1 |  |  |  |  |  |  |  | 1 | 1 | 1 | 1 |  |  |  |  |  |  |  |  | 1 |  |  |  |  |  | 1 |  |
|  | Must match exactly | | | | | | | Only on these positions gaps is allowed to occur.  This is a mask | | | | | | | Must match exactly | | | | | | | Must be 3, and must match on specified positions. | | | | | | | Must match exactly | | | | | | | Only on these positions gaps is allowed to occur.  This is a mask | | | | | | | Must match exactly | | | | | | | Must be 3, and must match on specified positions. | | | | | | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **xooo..\***  **xoo.o.\***  **xo.oo.\***  **xo.o.o\***  **xo..oo\*** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | **\*..ooox**  **\*.o.oox**  **\*.oo.ox**  **\*o.o.ox**  **\*o..oox** | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | **\*** | | | | | | | **.** | | | | | | | **o** | | | | | | | **x** | | | | | | | **\*** | | | | | | | **.** | | | | | | | **o** | | | | | | | **x** | | | | | | |
| 0 | 1 |  |  |  |  |  |  |  | 1 | 1 | 1 | 1 |  |  |  |  |  |  |  | 1 |  |  |  |  |  |  |  | 1 |  |  |  |  |  |  | 1 |  |  | 1 | 1 | 1 | 1 |  |  | 1 |  |  |  |  |  | 1 |  |  |  |  |  |  |
| 1 |  | 1 |  |  |  |  |  |  |  | 1 | 1 | 1 | 1 |  |  |  |  |  |  |  | 1 | 1 |  |  |  |  |  |  | 1 |  |  |  |  |  |  |  |  |  | 1 | 1 | 1 | 1 |  |  | 1 |  |  |  |  |  | 1 |  |  |  |  |  |
| 2 |  |  | 1 |  |  |  |  |  |  |  | 1 | 1 | 1 | 1 |  | 1 |  |  |  |  |  | 1 |  |  |  |  |  |  | 1 |  |  |  |  |  |  |  | 1 |  |  | 1 | 1 | 1 |  |  |  | 1 |  |  |  |  |  | 1 |  |  |  |  |
| 3 |  |  |  | 1 |  |  |  |  |  | 1 |  | 1 | 1 | 1 |  | 1 |  |  |  |  |  | 1 |  |  |  |  |  |  | 1 |  |  |  |  |  |  |  | 1 | 1 |  |  | 1 | 1 |  |  |  |  | 1 |  |  |  |  |  | 1 |  |  |  |
| 4 |  |  |  |  | 1 |  |  |  |  | 1 | 1 |  | 1 | 1 |  | 1 |  |  |  |  |  | 1 |  |  |  |  |  |  | 1 |  |  |  |  |  |  |  | 1 | 1 | 1 |  |  | 1 |  |  |  |  |  | 1 |  |  |  |  |  | 1 |  |  |
| 5 |  |  |  |  |  | 1 |  |  |  | 1 | 1 | 1 |  | 1 |  | 1 |  |  |  |  |  | 1 |  |  |  |  |  |  | 1 |  |  |  |  |  |  |  | 1 | 1 | 1 | 1 |  |  |  |  |  |  |  |  | 1 |  |  |  |  |  | 1 |  |
| 6 |  |  |  |  |  |  | 1 |  |  | 1 | 1 | 1 | 1 |  |  | 1 |  |  |  |  |  | 1 |  |  |  |  |  |  | 1 |  |  |  |  |  |  |  | 1 | 1 | 1 | 1 |  |  |  |  |  |  |  | 1 |  |  |  |  |  |  |  | 1 |
|  | Must match exactly | | | | | | | On marked positions there must not be enemy pawns | | | | | | | Must be 3, and must match on specified positions | | | | | | | Must match exactly | | | | | | | Must match exactly | | | | | | | On marked positions there must not be enemy pawns | | | | | | | Must be 3, and must match on specified positions. | | | | | | | Must match exactly | | | | | | |

Table : Threat3CaseB

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **.xx...\***  **.x.x..\***  **.x..x.\***  **..xx..\***  **..x.x.\***  **...xx.\*** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | **\*.xx...**  **\*.x.x..**  **\*.x..x.**  **\*..xx..**  **\*..x.x.**  **\*...xx.** | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | **\*** | | | | | | | **.** | | | | | | | **o** | | | | | | | **x** | | | | | | | **\*** | | | | | | | **.** | | | | | | | **o** | | | | | | | **x** | | | | | | | |
| 0 | 1 |  |  |  |  |  |  |  | 1 |  |  |  |  | 1 |  |  | 1 | 1 | 1 | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 | 1 |  |  |  |  | 1 |  |  | 1 | 1 | 1 | 1 |  |  | |  |  |  |  |  |  |  | |
| 1 |  | 1 |  |  |  |  |  | 1 |  | 1 |  |  |  |  |  |  |  | 1 | 1 | 1 | 1 |  |  |  |  |  |  |  | 1 |  |  |  |  |  |  |  | 1 |  |  |  |  | 1 |  |  | 1 | 1 | 1 | 1 |  | |  |  |  |  |  |  |  | |
| 2 |  |  | 1 |  |  |  |  | 1 |  |  | 1 |  |  |  |  | 1 |  |  | 1 | 1 | 1 |  |  |  |  |  |  |  | 1 |  |  |  |  |  |  |  | 1 | 1 |  |  |  |  |  |  |  | 1 | 1 | 1 | 1 | |  |  |  |  |  |  |  | |
| 3 |  |  |  | 1 |  |  |  | 1 |  |  |  | 1 |  |  |  | 1 | 1 |  |  | 1 | 1 |  |  |  |  |  |  |  | 1 |  |  |  |  |  |  |  | 1 |  | 1 |  |  |  |  |  | 1 |  | 1 | 1 | 1 | |  |  |  |  |  |  |  | |
| 4 |  |  |  |  | 1 |  |  | 1 |  |  |  |  | 1 |  |  | 1 | 1 | 1 |  |  | 1 |  |  |  |  |  |  |  | 1 |  |  |  |  |  |  |  | 1 |  |  | 1 |  |  |  |  | 1 | 1 |  | 1 | 1 | |  |  |  |  |  |  |  | |
| 5 |  |  |  |  |  | 1 |  | 1 |  |  |  |  |  | 1 |  | 1 | 1 | 1 | 1 |  |  |  |  |  |  |  |  |  | 1 |  |  |  |  |  |  |  | 1 |  |  |  | 1 |  |  |  | 1 | 1 | 1 |  | 1 | |  |  |  |  |  |  |  | |
| 6 |  |  |  |  |  |  | 1 | 1 |  |  |  |  | 1 |  |  | 1 | 1 | 1 | 1 |  |  |  |  |  |  |  |  |  | 1 |  |  |  |  |  |  |  | 1 |  |  |  |  | 1 |  |  | 1 | 1 | 1 | 1 |  | |  |  |  |  |  |  |  | |
|  | Must match exactly | | | | | | | Must be 4 and specified must match exactly | | | | | | | On marked positions there must not be enemy pawns | | | | | | | Must be 2 | | | | | | | Must match exactly | | | | | | | Must be 4 and specified must match exactly | | | | | | | On marked positions there must not be enemy pawns | | | | | | | Must be 2 | | | | | | | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **.oo...\***  **.o.o..\***  **.o..o.\***  **..oo..\***  **..o.o.\***  **...oo.\*** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | **\*.oo...**  **\*.o.o..**  **\*.o..o.**  **\*..oo..**  **\*..o.o.**  **\*...oo.** | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | **\*** | | | | | | | **.** | | | | | | | **o** | | | | | | | **x** | | | | | | | **\*** | | | | | | | **.** | | | | | | | **o** | | | | | | | **x** | | | | | | | |
| 0 | 1 |  |  |  |  |  |  |  | 1 |  |  |  |  | 1 |  |  | 1 | 1 | 1 | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 | 1 |  |  |  |  | 1 |  |  | 1 | 1 | 1 | 1 |  |  | |  |  |  |  |  |  |  | |
| 1 |  | 1 |  |  |  |  |  | 1 |  | 1 |  |  |  |  |  |  |  | 1 | 1 | 1 | 1 |  |  |  |  |  |  |  | 1 |  |  |  |  |  |  |  | 1 |  |  |  |  | 1 |  |  | 1 | 1 | 1 | 1 |  | |  |  |  |  |  |  |  | |
| 2 |  |  | 1 |  |  |  |  | 1 |  |  | 1 |  |  |  |  | 1 |  |  | 1 | 1 | 1 |  |  |  |  |  |  |  | 1 |  |  |  |  |  |  |  | 1 | 1 |  |  |  |  |  |  |  | 1 | 1 | 1 | 1 | |  |  |  |  |  |  |  | |
| 3 |  |  |  | 1 |  |  |  | 1 |  |  |  | 1 |  |  |  | 1 | 1 |  |  | 1 | 1 |  |  |  |  |  |  |  | 1 |  |  |  |  |  |  |  | 1 |  | 1 |  |  |  |  |  | 1 |  | 1 | 1 | 1 | |  |  |  |  |  |  |  | |
| 4 |  |  |  |  | 1 |  |  | 1 |  |  |  |  | 1 |  |  | 1 | 1 | 1 |  |  | 1 |  |  |  |  |  |  |  | 1 |  |  |  |  |  |  |  | 1 |  |  | 1 |  |  |  |  | 1 | 1 |  | 1 | 1 | |  |  |  |  |  |  |  | |
| 5 |  |  |  |  |  | 1 |  | 1 |  |  |  |  |  | 1 |  | 1 | 1 | 1 | 1 |  |  |  |  |  |  |  |  |  | 1 |  |  |  |  |  |  |  | 1 |  |  |  | 1 |  |  |  | 1 | 1 | 1 |  | 1 | |  |  |  |  |  |  |  | |
| 6 |  |  |  |  |  |  | 1 | 1 |  |  |  |  | 1 |  |  | 1 | 1 | 1 | 1 |  |  |  |  |  |  |  |  |  | 1 |  |  |  |  |  |  |  | 1 |  |  |  |  | 1 |  |  | 1 | 1 | 1 | 1 |  | |  |  |  |  |  |  |  | |
|  | Must match exactly | | | | | | | Must be 4 and specified must match exactly | | | | | | | On marked positions there must not be enemy pawns | | | | | | | Must be 2 | | | | | | | Must match exactly | | | | | | | Must be 4 and specified must match exactly | | | | | | | On marked positions there must not be enemy pawns | | | | | | | Must be 2 | | | | | | | |

Table : Threat2CaseA

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | .x...x. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | **n.a** | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | **\*** | | | | | | | | **.** | | | | | | | | **o** | | | | | | | | **x** | | | | | | | | **\*** | | | | | | | **.** | | | | | | | **o** | | | | | | | **x** | | | | | | |
| 0 |  |  |  |  |  |  |  |  |  | 1 |  | 1 | 1 | 1 |  | 1 |  |  |  |  |  |  |  |  |  |  | 1 |  |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 |  |  |  |  |  |  |  |  |  | 1 | 1 |  | 1 | 1 | 1 |  |  |  |  |  |  |  |  |  |  |  |  | 1 |  |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2 |  |  |  |  |  |  |  |  |  | 1 |  | 1 |  | 1 | 1 | 1 |  |  |  |  |  |  |  |  |  |  | 1 |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3 |  |  |  |  |  |  |  |  |  | 1 |  | 1 | 1 |  | 1 | 1 |  |  |  |  |  |  |  |  |  |  | 1 |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 4 |  |  |  |  |  |  |  |  |  | 1 |  | 1 | 1 | 1 |  | 1 |  |  |  |  |  |  |  |  |  |  | 1 |  |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5 |  |  |  |  |  |  |  |  |  | 1 |  | 1 | 1 | 1 | 1 |  |  |  |  |  |  |  |  |  |  |  | 1 |  |  |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 6 |  |  |  |  |  |  |  |  |  | 1 |  | 1 | 1 | 1 |  | 1 |  |  |  |  |  |  |  |  |  |  | 1 |  |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | n.a | | | | | | | | Mast match exactly | | | | | | | | Must be 0 | | | | | | | | Must match exactly | | | | | | | |  | | | | | | |  | | | | | | |  | | | | | | |  | | | | | | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | .o...o. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | **n.a** | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | **\*** | | | | | | | | **.** | | | | | | | | **o** | | | | | | | | **x** | | | | | | | | **\*** | | | | | | | **.** | | | | | | | **o** | | | | | | | **x** | | | | | | |
| 0 |  |  |  |  |  |  |  |  |  | 1 |  | 1 | 1 | 1 |  | 1 |  |  | 1 |  |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 |  |  |  |  |  |  |  |  |  | 1 | 1 |  | 1 | 1 | 1 |  |  |  |  | 1 |  |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2 |  |  |  |  |  |  |  |  |  | 1 |  | 1 |  | 1 | 1 | 1 |  |  | 1 |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3 |  |  |  |  |  |  |  |  |  | 1 |  | 1 | 1 |  | 1 | 1 |  |  | 1 |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 4 |  |  |  |  |  |  |  |  |  | 1 |  | 1 | 1 | 1 |  | 1 |  |  | 1 |  |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5 |  |  |  |  |  |  |  |  |  | 1 |  | 1 | 1 | 1 | 1 |  |  |  | 1 |  |  |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 6 |  |  |  |  |  |  |  |  |  | 1 |  | 1 | 1 | 1 |  | 1 |  |  | 1 |  |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | n.a | | | | | | | | Mast match exactly | | | | | | | | Must match exactly | | | | | | | | Must be 0 | | | | | | | |  | | | | | | |  | | | | | | |  | | | | | | |  | | | | | | |

Table : Threat2CaseAA

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **oxx...o**  **o.xx..o**  **o..xx.o**  **o...xxo**  **ox.x..o**  **o.x.x.o** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | **n.a** | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | **\*** | | | | | | | | **.** | | | | | | | | **o** | | | | | | | | **x** | | | | | | | | **\*** | | | | | | | **.** | | | | | | | **o** | | | | | | | **x** | | | | | | |
| 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |  |  |  |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 4 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |  |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |  |  |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 6 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |  |  |  |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | n.a | | | | | | | | Must be 3 | | | | | | | | Must match exactly. | | | | | | | | Must be 2 | | | | | | | |  | | | | | | |  | | | | | | |  | | | | | | |  | | | | | | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **xoo...x**  **x.oo..x**  **x..oo.x**  **x...oox**  **xo.o..x**  **x.o.o.x** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | **n.a** | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | **\*** | | | | | | | | **.** | | | | | | | | **o** | | | | | | | | **x** | | | | | | | | **\*** | | | | | | | **.** | | | | | | | **o** | | | | | | | **x** | | | | | | |
| 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |  |  |  |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 4 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |  |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |  |  |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 6 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |  |  |  |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | n.a | | | | | | | | Must be 3 | | | | | | | | Must be 2 | | | | | | | | Must match exactly. | | | | | | | |  | | | | | | |  | | | | | | |  | | | | | | |  | | | | | | |

Table : Threat2CaseC

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **oxx...\***  **ox.x..\***  **ox..x.\***  **ox...x\*** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | **\*x...xo**  **\*.x..xo**  **\*..x.xo**  **\*...xxo** | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | **\*** | | | | | | | **.** | | | | | | | **o** | | | | | | | **x** | | | | | | | **\*** | | | | | | | **.** | | | | | | | **o** | | | | | | | **x** | | | | | | |
| 0 | 1 |  |  |  |  |  |  |  | 1 | 1 | 1 | 1 |  |  |  |  |  |  |  |  | 1 |  |  |  |  |  | 1 |  |  |  |  |  |  |  | 1 |  |  | 1 | 1 | 1 | 1 |  | 1 |  |  |  |  |  |  |  | 1 |  |  |  |  |  |
| 1 |  | 1 |  |  |  |  |  |  |  | 1 | 1 | 1 | 1 |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  | 1 | 1 |  |  |  |  |  |  |  |  |  | 1 | 1 | 1 | 1 |  | 1 |  |  |  |  |  |  |  | 1 |  |  |  |  |
| 2 |  |  | 1 |  |  |  |  |  |  |  | 1 | 1 | 1 | 1 | 1 |  |  |  |  |  |  |  | 1 |  |  |  |  |  | 1 |  |  |  |  |  |  |  | 1 |  |  | 1 | 1 | 1 |  |  | 1 |  |  |  |  |  |  |  | 1 |  |  |  |
| 3 |  |  |  | 1 |  |  |  |  |  | 1 |  | 1 | 1 | 1 | 1 |  |  |  |  |  |  |  | 1 |  |  |  |  |  | 1 |  |  |  |  |  |  |  | 1 | 1 |  |  | 1 | 1 |  |  |  | 1 |  |  |  |  |  |  |  | 1 |  |  |
| 4 |  |  |  |  | 1 |  |  |  |  | 1 | 1 |  | 1 | 1 | 1 |  |  |  |  |  |  |  | 1 |  |  |  |  |  | 1 |  |  |  |  |  |  |  | 1 | 1 | 1 |  |  | 1 |  |  |  |  | 1 |  |  |  |  |  |  |  | 1 |  |
| 5 |  |  |  |  |  | 1 |  |  |  | 1 | 1 | 1 |  | 1 | 1 |  |  |  |  |  |  |  | 1 |  |  |  |  |  | 1 |  |  |  |  |  |  |  | 1 | 1 | 1 | 1 |  |  |  |  |  |  |  | 1 |  |  |  |  |  |  |  | 1 |
| 6 |  |  |  |  |  |  | 1 |  |  | 1 | 1 | 1 | 1 |  | 1 |  |  |  |  |  |  |  | 1 |  |  |  |  |  | 1 |  |  |  |  |  |  |  | 1 | 1 | 1 | 1 |  |  |  |  |  |  |  |  | 1 |  |  |  |  |  | 1 |  |
|  | Must match exactly. | | | | | | | On marked positions there must not be enemy pawns | | | | | | | Must match exactly. | | | | | | | Must be 2 and on specified position. | | | | | | | Must match exactly. | | | | | | | On marked positions there must not be enemy pawns | | | | | | | Must match exactly. | | | | | | | Must be 2 and on specified position. | | | | | | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **xoo...\***  **xo.o..\***  **xo..o.\***  **xo...o\*** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | **\*o...ox**  **\*.o..ox**  **\*..o.ox**  **\*...oox** | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | **\*** | | | | | | | **.** | | | | | | | **o** | | | | | | | **x** | | | | | | | **\*** | | | | | | | **.** | | | | | | | **o** | | | | | | | **x** | | | | | | |
| 0 | 1 |  |  |  |  |  |  |  | 1 | 1 | 1 | 1 |  |  |  |  |  |  |  | 1 |  |  |  |  |  |  |  | 1 |  |  |  |  |  |  | 1 |  |  | 1 | 1 | 1 | 1 |  |  | 1 |  |  |  |  |  | 1 |  |  |  |  |  |  |
| 1 |  | 1 |  |  |  |  |  |  |  | 1 | 1 | 1 | 1 |  |  |  |  |  |  |  | 1 | 1 |  |  |  |  |  |  | 1 |  |  |  |  |  |  |  |  |  | 1 | 1 | 1 | 1 |  |  | 1 |  |  |  |  |  | 1 |  |  |  |  |  |
| 2 |  |  | 1 |  |  |  |  |  |  |  | 1 | 1 | 1 | 1 |  | 1 |  |  |  |  |  | 1 |  |  |  |  |  |  | 1 |  |  |  |  |  |  |  | 1 |  |  | 1 | 1 | 1 |  |  |  | 1 |  |  |  |  |  | 1 |  |  |  |  |
| 3 |  |  |  | 1 |  |  |  |  |  | 1 |  | 1 | 1 | 1 |  | 1 |  |  |  |  |  | 1 |  |  |  |  |  |  | 1 |  |  |  |  |  |  |  | 1 | 1 |  |  | 1 | 1 |  |  |  |  | 1 |  |  |  |  |  | 1 |  |  |  |
| 4 |  |  |  |  | 1 |  |  |  |  | 1 | 1 |  | 1 | 1 |  | 1 |  |  |  |  |  | 1 |  |  |  |  |  |  | 1 |  |  |  |  |  |  |  | 1 | 1 | 1 |  |  | 1 |  |  |  |  |  | 1 |  |  |  |  |  | 1 |  |  |
| 5 |  |  |  |  |  | 1 |  |  |  | 1 | 1 | 1 |  | 1 |  | 1 |  |  |  |  |  | 1 |  |  |  |  |  |  | 1 |  |  |  |  |  |  |  | 1 | 1 | 1 | 1 |  |  |  |  |  |  |  |  | 1 |  |  |  |  |  | 1 |  |
| 6 |  |  |  |  |  |  | 1 |  |  | 1 | 1 | 1 | 1 |  |  | 1 |  |  |  |  |  | 1 |  |  |  |  |  |  | 1 |  |  |  |  |  |  |  | 1 | 1 | 1 | 1 |  |  |  |  |  |  |  | 1 |  |  |  |  |  |  |  | 1 |
|  | Must match exactly. | | | | | | | On marked positions there must not be enemy pawns | | | | | | | Must be 2 and on specified position. | | | | | | | Must match exactly. | | | | | | | Must match exactly. | | | | | | | On marked positions there must not be enemy pawns | | | | | | | Must be 2 and on specified position. | | | | | | | Must match exactly. | | | | | | |

Table : Threat2CaseB