|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Boundary test for method Board.withinBorders  x >= 0 && x < getWidth() && y >= 0 && y < getHeight() | | | | | | | | | | |
| Variable | condition | type | Test cases( x, y) | | | | | | | |
| T1 | T2 | T3 | T4 | T5 | T6 | T7 | T8 |
| x | => 0 | On | 0 |  |  |  |  |  |  |  |
| Off |  | <0 |  |  |  |  |  |  |
| < getWidth() | On |  |  | getWidth() |  |  |  |  |  |
| Off |  |  |  | <getWidth() |  |  |  |  |
| typical | In |  |  |  |  | 0 =< x < getWidth() | | | |
| y | >= 0 | On |  |  |  |  | 0 |  |  |  |
| Off |  |  |  |  |  | < 0 |  |  |
| < getHeight() | On |  |  |  |  |  |  | getHeight() |  |
| Off |  |  |  |  |  |  |  | < getHeight() |
| typical | In | 0 =< y < getHeight() | | | |  |  |  |  |

Exercise 12:

* = false
* = true

Example: Board of 3x4

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Boundary test for method Board.withinBorders  x >= 0 && x < getWidth() && y >= 0 && y < getHeight() | | | | | | | | | | |
| Variable | condition | type | Test cases( x, y) | | | | | | | |
| T1 | T2 | T3 | T4 | T5 | T6 | T7 | T8 |
| x | => 0 | On | 0 |  |  |  |  |  |  |  |
| Off |  | -1 |  |  |  |  |  |  |
| < getWidth() | On |  |  | 3 |  |  |  |  |  |
| Off |  |  |  | 2 |  |  |  |  |
| typical | In |  |  |  |  | 1 | 1 | 2 | 0 |
| y | >= 0 | On |  |  |  |  | 0 |  |  |  |
| Off |  |  |  |  |  | -1 |  |  |
| < getHeight() | On |  |  |  |  |  |  | 4 |  |
| Off |  |  |  |  |  |  |  | 3 |
| typical | In | 0 | 1 | 2 | 3 |  |  |  |  |