0: represents a space

x: represents a live cell

-: represents a dead cell

Test case 1. Negative

xx0

Cell needs at least two neighbours cannot survive therefore the cycle ends

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Test case 2. Positive

Cycle 1

xxx

example of what cycle 2 could look like:

-x-

0x0

Cell with two live neighbours should reproduce

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Test case 3. Negative

x0xx

Cell should have at least two live neighbours, or the cycle cannot continue

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Test case 4. Negative

0x0

xxx

0x0

Cells with more than four live neighbours cannot coexist and die of, making the cycle complete

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Test case 5. Positive

Cycle 1

0x0

0-x

0x0

Example of cycle 2

0-0

0x-

0-0

A dead cell surrounded by three live neighbour cell becomes a live cell

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Test case 6. Negative

0x0

0-0

0x0

A dead cell surrounded by two live neighbour cells cannot become a live cell

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Test case 7.Positive

0x0

x0x

000

A live cell with two live neighbours will continue to the next generation.