[----------] 13 tests from sudoku

[ RUN ] sudoku.constructor\_equal

[ OK ] sudoku.constructor\_equal (4 ms)

[ RUN ] sudoku.locator\_getter\_setter

[ OK ] sudoku.locator\_getter\_setter (3 ms)

[ RUN ] sudoku.challenge\_row\_empty

Original Sudoku grid:

layer 0 | 0 0 0 | 0 0 0 | 0 0 0

layer 1 | 5 2 9 | 1 3 4 | 7 6 8

layer 2 | 4 8 7 | 6 2 9 | 5 3 1

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layer 3 | 2 6 3 | 4 1 5 | 9 8 7

layer 4 | 9 7 4 | 8 6 3 | 1 2 5

layer 5 | 8 5 1 | 7 9 2 | 6 4 3

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layer 6 | 1 3 8 | 9 4 7 | 2 5 6

layer 7 | 6 9 2 | 3 5 1 | 8 7 4

layer 8 | 7 4 5 | 2 8 6 | 3 1 9

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Solved result:

layer 0 | 3 1 6 | 5 7 8 | 4 9 2

layer 1 | 5 2 9 | 1 3 4 | 7 6 8

layer 2 | 4 8 7 | 6 2 9 | 5 3 1

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

layer 3 | 2 6 3 | 4 1 5 | 9 8 7

layer 4 | 9 7 4 | 8 6 3 | 1 2 5

layer 5 | 8 5 1 | 7 9 2 | 6 4 3

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layer 6 | 1 3 8 | 9 4 7 | 2 5 6

layer 7 | 6 9 2 | 3 5 1 | 8 7 4

layer 8 | 7 4 5 | 2 8 6 | 3 1 9

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[ OK ] sudoku.challenge\_row\_empty (59 ms)

[ RUN ] sudoku.challenge\_col\_empty

Original Sudoku grid:

layer 0 | 0 0 0 | 0 0 0 | 0 0 0

layer 1 | 0 2 9 | 1 3 4 | 7 6 8

layer 2 | 0 8 7 | 6 2 9 | 5 3 1

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layer 3 | 0 6 3 | 4 1 5 | 9 8 7

layer 4 | 0 7 4 | 8 6 3 | 1 2 5

layer 5 | 0 5 1 | 7 9 2 | 6 4 3

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layer 6 | 0 3 8 | 9 4 7 | 2 5 6

layer 7 | 0 9 2 | 3 5 1 | 8 7 4

layer 8 | 0 4 5 | 2 8 6 | 3 1 9

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Solved result:

layer 0 | 3 1 6 | 5 7 8 | 4 9 2

layer 1 | 5 2 9 | 1 3 4 | 7 6 8

layer 2 | 4 8 7 | 6 2 9 | 5 3 1

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layer 3 | 2 6 3 | 4 1 5 | 9 8 7

layer 4 | 9 7 4 | 8 6 3 | 1 2 5

layer 5 | 8 5 1 | 7 9 2 | 6 4 3

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layer 6 | 1 3 8 | 9 4 7 | 2 5 6

layer 7 | 6 9 2 | 3 5 1 | 8 7 4

layer 8 | 7 4 5 | 2 8 6 | 3 1 9

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[ OK ] sudoku.challenge\_col\_empty (26 ms)

[ RUN ] sudoku.challenge\_paritial\_diag\_empty

Original Sudoku grid:

layer 0 | 0 1 6 | 5 7 8 | 4 9 2

layer 1 | 5 0 9 | 1 3 4 | 7 6 8

layer 2 | 4 8 7 | 6 2 9 | 5 3 1

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layer 3 | 2 6 3 | 4 1 5 | 9 8 7

layer 4 | 9 7 4 | 8 6 3 | 1 2 5

layer 5 | 8 5 1 | 7 9 2 | 6 4 3

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layer 6 | 1 3 8 | 9 4 7 | 2 5 6

layer 7 | 6 9 2 | 3 5 1 | 8 7 4

layer 8 | 7 4 5 | 2 8 6 | 3 1 9

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Solved result:

layer 0 | 3 1 6 | 5 7 8 | 4 9 2

layer 1 | 5 2 9 | 1 3 4 | 7 6 8

layer 2 | 4 8 7 | 6 2 9 | 5 3 1

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

layer 3 | 2 6 3 | 4 1 5 | 9 8 7

layer 4 | 9 7 4 | 8 6 3 | 1 2 5

layer 5 | 8 5 1 | 7 9 2 | 6 4 3

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layer 6 | 1 3 8 | 9 4 7 | 2 5 6

layer 7 | 6 9 2 | 3 5 1 | 8 7 4

layer 8 | 7 4 5 | 2 8 6 | 3 1 9

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[ OK ] sudoku.challenge\_paritial\_diag\_empty (24 ms)

[ RUN ] sudoku.challenge\_diag\_empty

Original Sudoku grid:

layer 0 | 0 1 6 | 5 7 8 | 4 9 2

layer 1 | 5 0 9 | 1 3 4 | 7 6 8

layer 2 | 4 8 0 | 6 2 9 | 5 3 1

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layer 3 | 2 6 3 | 0 1 5 | 9 8 7

layer 4 | 9 7 4 | 8 0 3 | 1 2 5

layer 5 | 8 5 1 | 7 9 0 | 6 4 3

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layer 6 | 1 3 8 | 9 4 7 | 0 5 6

layer 7 | 6 9 2 | 3 5 1 | 8 0 4

layer 8 | 7 4 5 | 2 8 6 | 3 1 0

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Solved result:

layer 0 | 3 1 6 | 5 7 8 | 4 9 2

layer 1 | 5 2 9 | 1 3 4 | 7 6 8

layer 2 | 4 8 7 | 6 2 9 | 5 3 1

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

layer 3 | 2 6 3 | 4 1 5 | 9 8 7

layer 4 | 9 7 4 | 8 6 3 | 1 2 5

layer 5 | 8 5 1 | 7 9 2 | 6 4 3

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layer 6 | 1 3 8 | 9 4 7 | 2 5 6

layer 7 | 6 9 2 | 3 5 1 | 8 7 4

layer 8 | 7 4 5 | 2 8 6 | 3 1 9

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[ OK ] sudoku.challenge\_diag\_empty (26 ms)

[ RUN ] sudoku.challenge\_reverse\_diag\_empty

Original Sudoku grid:

layer 0 | 3 1 6 | 5 7 8 | 4 9 0

layer 1 | 5 2 9 | 1 3 4 | 7 0 8

layer 2 | 4 8 7 | 6 2 9 | 0 3 1

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layer 3 | 2 6 3 | 4 1 0 | 9 8 7

layer 4 | 9 7 4 | 8 0 3 | 1 2 5

layer 5 | 8 5 1 | 0 9 2 | 6 4 3

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layer 6 | 1 3 0 | 9 4 7 | 2 5 6

layer 7 | 6 0 2 | 3 5 1 | 8 7 4

layer 8 | 0 4 5 | 2 8 6 | 3 1 9

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Solved result:

layer 0 | 3 1 6 | 5 7 8 | 4 9 2

layer 1 | 5 2 9 | 1 3 4 | 7 6 8

layer 2 | 4 8 7 | 6 2 9 | 5 3 1

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

layer 3 | 2 6 3 | 4 1 5 | 9 8 7

layer 4 | 9 7 4 | 8 6 3 | 1 2 5

layer 5 | 8 5 1 | 7 9 2 | 6 4 3

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layer 6 | 1 3 8 | 9 4 7 | 2 5 6

layer 7 | 6 9 2 | 3 5 1 | 8 7 4

layer 8 | 7 4 5 | 2 8 6 | 3 1 9

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[ OK ] sudoku.challenge\_reverse\_diag\_empty (25 ms)

[ RUN ] sudoku.real\_challenge\_1

Original Sudoku grid:

layer 0 | 3 0 6 | 5 0 8 | 4 0 0

layer 1 | 5 2 0 | 0 0 0 | 0 0 0

layer 2 | 0 8 7 | 0 0 0 | 0 3 1

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layer 3 | 0 0 3 | 0 1 0 | 0 8 0

layer 4 | 9 0 0 | 8 6 3 | 0 0 5

layer 5 | 0 5 0 | 0 9 0 | 6 0 0

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layer 6 | 1 3 0 | 0 0 0 | 2 5 0

layer 7 | 0 0 0 | 0 0 0 | 0 7 4

layer 8 | 0 0 5 | 2 0 6 | 3 0 0

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Solved result:

layer 0 | 3 1 6 | 5 7 8 | 4 9 2

layer 1 | 5 2 9 | 1 3 4 | 7 6 8

layer 2 | 4 8 7 | 6 2 9 | 5 3 1

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

layer 3 | 2 6 3 | 4 1 5 | 9 8 7

layer 4 | 9 7 4 | 8 6 3 | 1 2 5

layer 5 | 8 5 1 | 7 9 2 | 6 4 3

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layer 6 | 1 3 8 | 9 4 7 | 2 5 6

layer 7 | 6 9 2 | 3 5 1 | 8 7 4

layer 8 | 7 4 5 | 2 8 6 | 3 1 9

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[ OK ] sudoku.real\_challenge\_1 (275 ms)

[ RUN ] sudoku.real\_challenge\_2

Original Sudoku grid:

layer 0 | 3 0 6 | 5 0 8 | 4 0 0

layer 1 | 5 2 0 | 0 0 0 | 0 0 0

layer 2 | 0 8 7 | 0 0 0 | 0 3 1

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

layer 3 | 0 0 3 | 0 1 0 | 0 8 0

layer 4 | 9 0 0 | 8 6 3 | 0 0 5

layer 5 | 0 5 0 | 0 9 0 | 6 0 0

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

layer 6 | 1 3 0 | 0 0 0 | 2 5 0

layer 7 | 0 0 0 | 0 0 0 | 0 7 4

layer 8 | 0 0 5 | 2 0 6 | 3 0 0

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Solved result:

layer 0 | 3 1 6 | 5 7 8 | 4 9 2

layer 1 | 5 2 9 | 1 3 4 | 7 6 8

layer 2 | 4 8 7 | 6 2 9 | 5 3 1

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

layer 3 | 2 6 3 | 4 1 5 | 9 8 7

layer 4 | 9 7 4 | 8 6 3 | 1 2 5

layer 5 | 8 5 1 | 7 9 2 | 6 4 3

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layer 6 | 1 3 8 | 9 4 7 | 2 5 6

layer 7 | 6 9 2 | 3 5 1 | 8 7 4

layer 8 | 7 4 5 | 2 8 6 | 3 1 9

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[ OK ] sudoku.real\_challenge\_2 (249 ms)

[ RUN ] sudoku.real\_challenge\_3\_already\_solved

Original Sudoku grid:

layer 0 | 3 1 6 | 5 7 8 | 4 9 2

layer 1 | 5 2 9 | 1 3 4 | 7 6 8

layer 2 | 4 8 7 | 6 2 9 | 5 3 1

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layer 3 | 2 6 3 | 4 1 5 | 9 8 7

layer 4 | 9 7 4 | 8 6 3 | 1 2 5

layer 5 | 8 5 1 | 7 9 2 | 6 4 3

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layer 6 | 1 3 8 | 9 4 7 | 2 5 6

layer 7 | 6 9 2 | 3 5 1 | 8 7 4

layer 8 | 7 4 5 | 2 8 6 | 3 1 9

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Solved result:

layer 0 | 3 1 6 | 5 7 8 | 4 9 2

layer 1 | 5 2 9 | 1 3 4 | 7 6 8

layer 2 | 4 8 7 | 6 2 9 | 5 3 1

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

layer 3 | 2 6 3 | 4 1 5 | 9 8 7

layer 4 | 9 7 4 | 8 6 3 | 1 2 5

layer 5 | 8 5 1 | 7 9 2 | 6 4 3

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

layer 6 | 1 3 8 | 9 4 7 | 2 5 6

layer 7 | 6 9 2 | 3 5 1 | 8 7 4

layer 8 | 7 4 5 | 2 8 6 | 3 1 9

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[ OK ] sudoku.real\_challenge\_3\_already\_solved (21 ms)

[ RUN ] sudoku.no\_solution

Original Sudoku grid:

layer 0 | 6 0 6 | 5 0 8 | 4 0 0

layer 1 | 5 2 0 | 0 0 0 | 0 0 0

layer 2 | 0 8 7 | 0 0 0 | 0 3 1

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layer 3 | 0 0 3 | 0 1 0 | 0 8 0

layer 4 | 9 0 0 | 8 6 3 | 0 0 5

layer 5 | 0 5 0 | 0 9 0 | 6 0 0

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layer 6 | 1 3 0 | 0 0 0 | 2 5 0

layer 7 | 0 0 0 | 0 0 0 | 0 7 4

layer 8 | 0 0 5 | 2 0 6 | 3 0 0

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No valid solution was found.

[ OK ] sudoku.no\_solution (314 ms)

[ RUN ] sudoku.challenge\_3\_world\_hardest

Original Sudoku grid:

layer 0 | 8 0 0 | 0 0 0 | 0 0 0

layer 1 | 0 0 3 | 6 0 0 | 0 0 0

layer 2 | 0 7 0 | 0 9 0 | 2 0 0

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layer 3 | 0 5 0 | 0 0 7 | 0 0 0

layer 4 | 0 0 0 | 0 4 5 | 7 0 0

layer 5 | 0 0 0 | 1 0 0 | 0 3 0

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layer 6 | 0 0 1 | 0 0 0 | 0 6 8

layer 7 | 0 0 8 | 5 0 0 | 0 1 0

layer 8 | 0 9 0 | 0 0 0 | 4 0 0

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Solved result:

layer 0 | 8 1 2 | 7 5 3 | 6 4 9

layer 1 | 9 4 3 | 6 8 2 | 1 7 5

layer 2 | 6 7 5 | 4 9 1 | 2 8 3

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layer 3 | 1 5 4 | 2 3 7 | 8 9 6

layer 4 | 3 6 9 | 8 4 5 | 7 2 1

layer 5 | 2 8 7 | 1 6 9 | 5 3 4

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layer 6 | 5 2 1 | 9 7 4 | 3 6 8

layer 7 | 4 3 8 | 5 2 6 | 9 1 7

layer 8 | 7 9 6 | 3 1 8 | 4 5 2

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[ OK ] sudoku.challenge\_3\_world\_hardest (13828 ms)

[ RUN ] sudoku.rigged\_input

Original Sudoku grid:

layer 0 | 1 2 3 | 4 5 6 | 7 8 9

layer 1 | 10 11 12 | 13 14 15 | 16 17 18

layer 2 | 19 20 21 | 22 23 24 | 25 26 27

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layer 3 | 28 29 30 | 31 32 33 | 34 35 36

layer 4 | 37 38 39 | 40 41 42 | 43 44 45

layer 5 | 46 47 48 | 49 50 51 | 52 53 54

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layer 6 | 55 56 57 | 58 59 60 | 61 62 63

layer 7 | 64 65 66 | 67 68 69 | 70 71 72

layer 8 | 73 74 75 | 76 77 78 | 79 80 81

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(1, 0) = 10

Error: the starting board holds invalid values

Original Sudoku grid:

layer 0 | 1 0 3 | 0 5 0 | 7 0 9

layer 1 | 0 11 12 | 13 14 15 | 16 17 0

layer 2 | 19 20 21 | 22 23 24 | 25 26 27

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layer 3 | 0 29 30 | 31 32 33 | 34 35 0

layer 4 | 37 38 39 | 40 41 42 | 43 44 45

layer 5 | 0 47 48 | 49 50 51 | 52 53 0

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layer 6 | 55 56 57 | 58 59 60 | 61 62 63

layer 7 | 0 65 66 | 67 68 69 | 70 71 0

layer 8 | 73 0 75 | 0 77 0 | 79 0 81

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(1, 1) = 11

Error: the starting board holds invalid values

Original Sudoku grid:

layer 0 | 1 1 1 | 1 1 1 | 1 1 1

layer 1 | 1 1 1 | 1 1 1 | 1 1 1

layer 2 | 1 1 1 | 1 1 1 | 1 1 1

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layer 3 | 1 1 1 | 1 1 1 | 1 1 1

layer 4 | 1 1 1 | 1 1 1 | 1 1 1

layer 5 | 1 1 1 | 1 1 1 | 1 1 1

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layer 6 | 1 1 1 | 1 1 1 | 1 1 1

layer 7 | 1 1 1 | 1 1 1 | 1 1 1

layer 8 | 1 1 1 | 1 1 1 | 1 1 1

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Error: solution does not have valid number quantities.

Each appropriate number should appear once per row, once per column, and once per box (3x3)

No valid solution was found.

Original Sudoku grid:

layer 0 | 8 1 2 | 7 5 3 | 6 4 9

layer 1 | 9 4 3 | 6 8 2 | 1 7 5

layer 2 | 6 7 5 | 4 9 1 | 2 8 3

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layer 3 | 1 5 4 | 2 3 7 | 8 9 6

layer 4 | 3 6 9 | 8 4 5 | 7 2 1

layer 5 | 2 8 7 | 1 6 9 | 5 3 4

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layer 6 | 5 2 1 | 9 7 4 | 3 6 8

layer 7 | 4 3 8 | 5 2 6 | 9 1 7

layer 8 | 7 9 6 | 3 1 8 | 4 5 -1

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(8, 8) = -1

Error: the starting board holds invalid values

[ OK ] sudoku.rigged\_input (10 ms)

[----------] 13 tests from sudoku (14864 ms total)

[----------] 3 tests from sudoku\_locator

[ RUN ] sudoku\_locator.null\_data\_input

[ OK ] sudoku\_locator.null\_data\_input (6 ms)

[ RUN ] sudoku\_locator.out\_of\_bound

[ OK ] sudoku\_locator.out\_of\_bound (4 ms)

[ RUN ] sudoku\_locator.normal\_range

[ OK ] sudoku\_locator.normal\_range (1 ms)

[----------] 3 tests from sudoku\_locator (11 ms total)

[----------] Global test environment tear-down

[==========] 45 tests from 4 test cases ran. (15470 ms total)

[ PASSED ] 45 tests.

==863==

==863== HEAP SUMMARY:

==863== in use at exit: 0 bytes in 0 blocks

==863== total heap usage: 532,837 allocs, 532,837 frees, 21,409,080 bytes allocated

==863==

==863== All heap blocks were freed -- no leaks are possible

==863==

==863== For lists of detected and suppressed errors, rerun with: -s

==863== ERROR SUMMARY: 0 errors from 0 contexts (suppressed: 0 from 0)

jmastibbins@DESKTOP-6L4H3CM:/mnt/c/Users/jmast/CLionProjects/2022-342-sprint-5-x/bin$