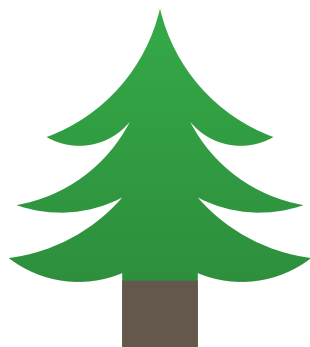


Advent of Code

— 2024 —

by Lord Baryhobal



Stars: 32 / 50

| Mon | Tue | Wed | Thu | Fri | Sat | Sun |
|---------|----------|----------|----------|----------|----------|----------|
| | | | | | | 1 ★★ |
| 2 ★★ | 3 ★★ | 4 ★★ | 5 ★★ | 6 ★★ | 7 ★★ | 8 ★★ |
| 9 ★★ | 10 ★★ | 11 ★★ | 12 ★★ | 13 ★★ | 14 ★★ | 15 ★★ |
| 16 | 17 ★ | 18 ★ | 19 | 20 | 21 | 22 |
| 23 | 24 | 25 | | | | |

Contents

| | |
|----------|----|
| Day 1★★ | 3 |
| Puzzle 1 | 3 |
| Puzzle 2 | 3 |
| Day 2★★ | 4 |
| Puzzle 1 | 4 |
| Puzzle 2 | 4 |
| Day 3★★ | 5 |
| Puzzle 1 | 5 |
| Puzzle 2 | 5 |
| Day 4★★ | 6 |
| Puzzle 1 | 6 |
| Puzzle 2 | 6 |
| Day 5★★ | 7 |
| Puzzle 1 | 7 |
| Puzzle 2 | 7 |
| Day 6★★ | 8 |
| Puzzle 1 | 8 |
| Puzzle 2 | 8 |
| Day 7★★ | 9 |
| Puzzle 1 | 9 |
| Puzzle 2 | 9 |
| Day 8★★ | 10 |
| Puzzle 1 | 10 |
| Puzzle 2 | 10 |
| Day 9★★ | 11 |
| Puzzle 1 | 11 |
| Puzzle 2 | 11 |
| Day 10★★ | 12 |
| Puzzle 1 | 12 |
| Puzzle 2 | 12 |
| Day 11★★ | 13 |
| Puzzle 1 | 13 |
| Puzzle 2 | 13 |
| Day 12★★ | 14 |
| Puzzle 1 | 14 |
| Puzzle 2 | 14 |
| Day 13★★ | 15 |
| Puzzle 1 | 15 |
| Puzzle 2 | 15 |
| Day 14★★ | 16 |
| Puzzle 1 | 16 |
| Puzzle 2 | 16 |
| Day 15★★ | 17 |

| | |
|----------|----|
| Puzzle 1 | 17 |
| Puzzle 2 | 17 |
| Day 16 | 18 |
| Puzzle 1 | 18 |
| Puzzle 2 | 18 |
| Day 17★ | 19 |
| Puzzle 1 | 19 |
| Puzzle 2 | 19 |
| Day 18★ | 20 |
| Puzzle 1 | 20 |
| Puzzle 2 | 20 |

Day 1 ★★

Puzzle 1

Example passes

Result: 2113135

Puzzle 2

Example passes



Figure 1: Example (visualization)

Result: 19097157

Day 2 ★★

Puzzle 1

Example passes

Result: 660

Puzzle 2

Example passes



Figure 2: Example (visualization)

Result: 689

Day 3 ★★

Puzzle 1

Example '1' passes

$x \underbrace{\text{mul}(2,4)}_8 \% \text{mul}[3,7] ! @^{\text{do_not}} \underbrace{\text{mul}(5,5)}_{25} + \text{mul}(32,64] \text{ then } (\underbrace{\text{mul}(11,8)}_{88} \underbrace{\text{mul}(8,5)}_{40})$

Listing 1: Example '1' (visualization)

Result: 187825547

Puzzle 2

Example '2' passes

Result: 85508223

Day 4★★

Puzzle 1

Example passes

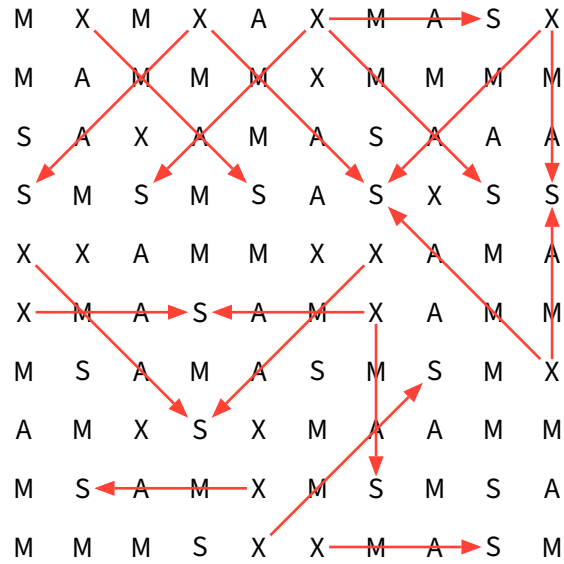


Figure 3: Example (visualization)

Result: 2654

Puzzle 2

Example passes

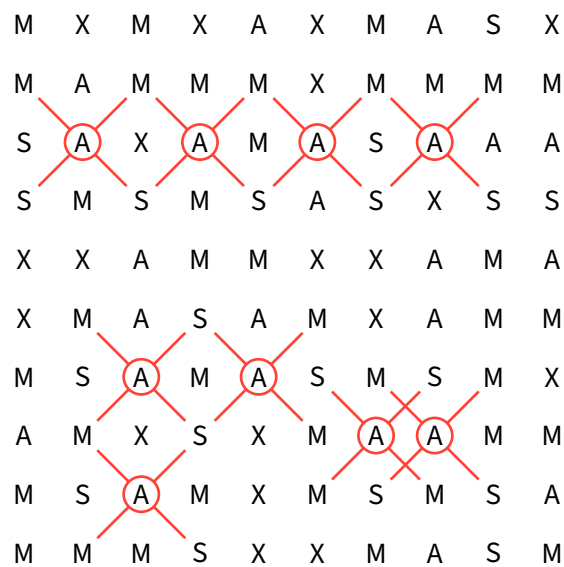


Figure 4: Example (visualization)

Result: 1990

Day 5★★

Puzzle 1

Example passes



Figure 5: Example (visualization)

Result: 5374

Puzzle 2

Example passes

Result: 4260

Day 6 ★★

Puzzle 1

Example passes

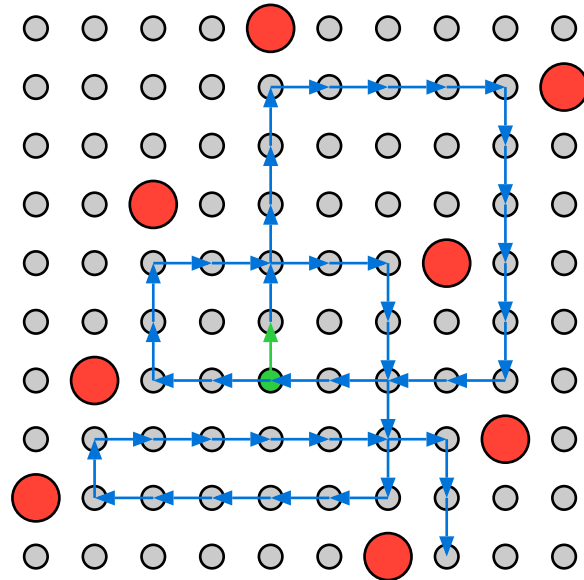


Figure 6: Example (visualization)

Result: 4752

Puzzle 2

Example passes

Result: 1719

Day 7★★

Puzzle 1

Example passes

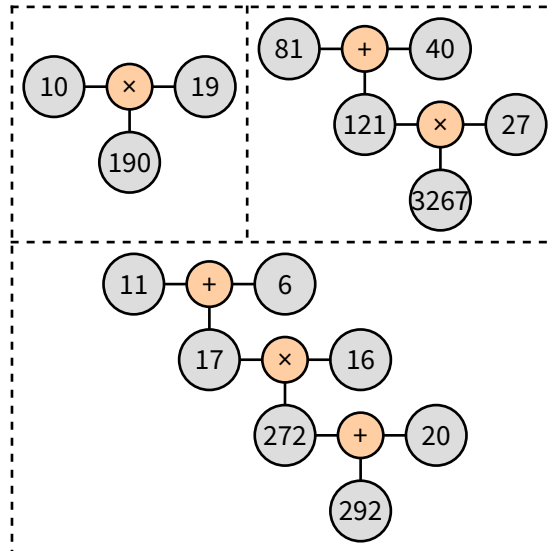


Figure 7: Example (visualization)

Result: 850435817339

Puzzle 2

Example passes

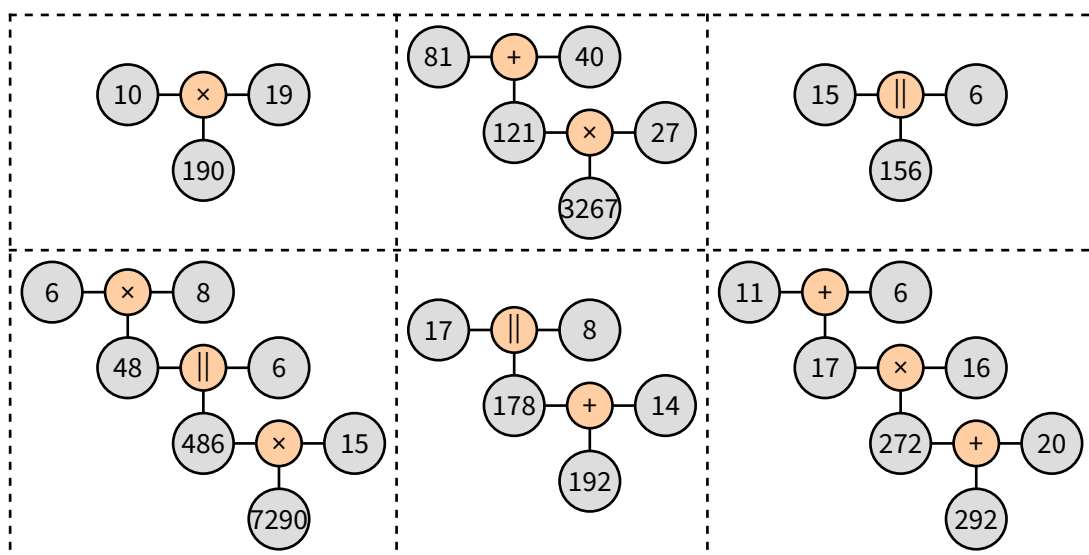


Figure 8: Example (visualization)

Result: 104824810233437

Day 8 ★★

Puzzle 1

Example passes

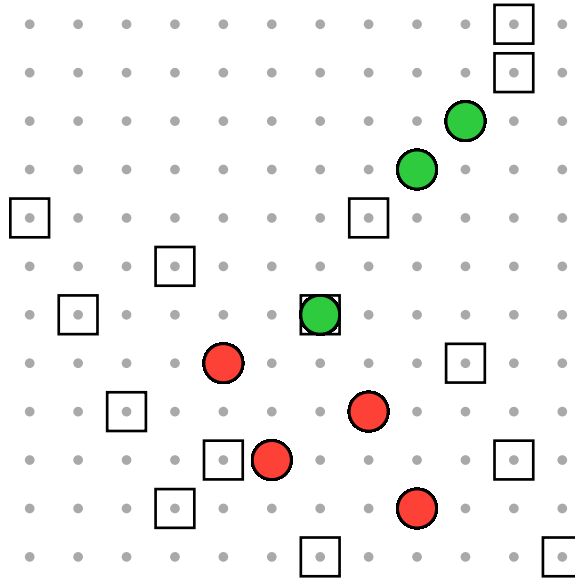


Figure 9: Example (visualization)

Result: 265

Puzzle 2

Example passes

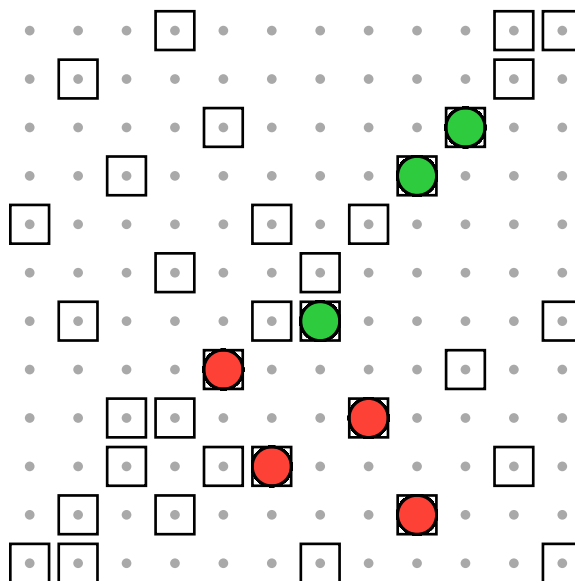


Figure 10: Example (visualization)

Result: 962

Day 9 ★★

Puzzle 1

Example '1' passes



Figure 11: Example '1' (visualization)

Example '2' passes



Figure 12: Example '2' (visualization)

Result: 6390180901651

Puzzle 2

Example '1' passes



Figure 13: Example '1' (visualization)

Example '2' passes



Figure 14: Example '2' (visualization)

Result: 6412390114238

Day 10★★

Puzzle 1

Example passes

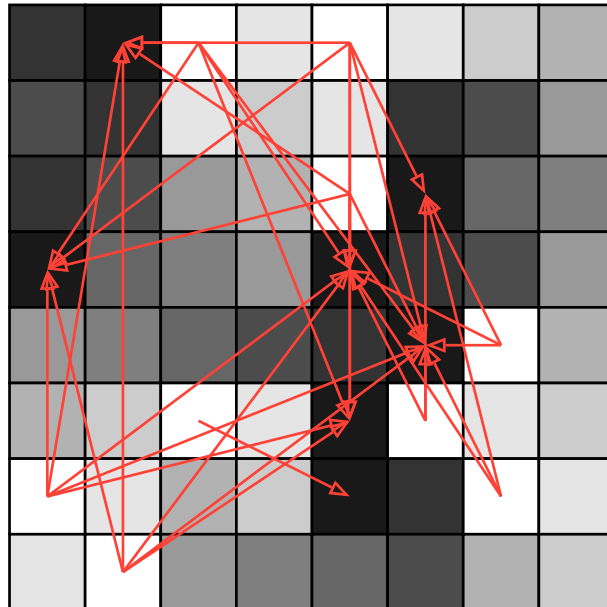


Figure 15: Example (visualization)

Result: 825

Puzzle 2

Example passes

Result: 1805

Day 11 ★★

Puzzle 1

Example passes

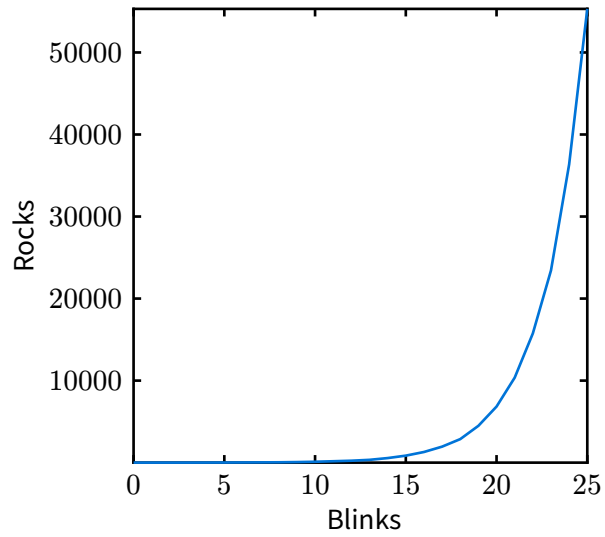


Figure 16: Example (visualization)

Result: 191690

Puzzle 2

Result: 228651922369703

Day 12 ★★

Puzzle 1

Example '1' passes

Example '2' passes

Example '3' passes

Result: 1450422

Puzzle 2

Example '1' passes

Example '2' passes

Example '3' passes

Example '4' passes

Example '5' passes

Result: 906606

Day 13 ★★

Puzzle 1

Example passes

Result: 29438

Puzzle 2

Example passes

Result: 104958599303720

Day 14★★

Puzzle 1

Example passes

Result: 230436441

Puzzle 2

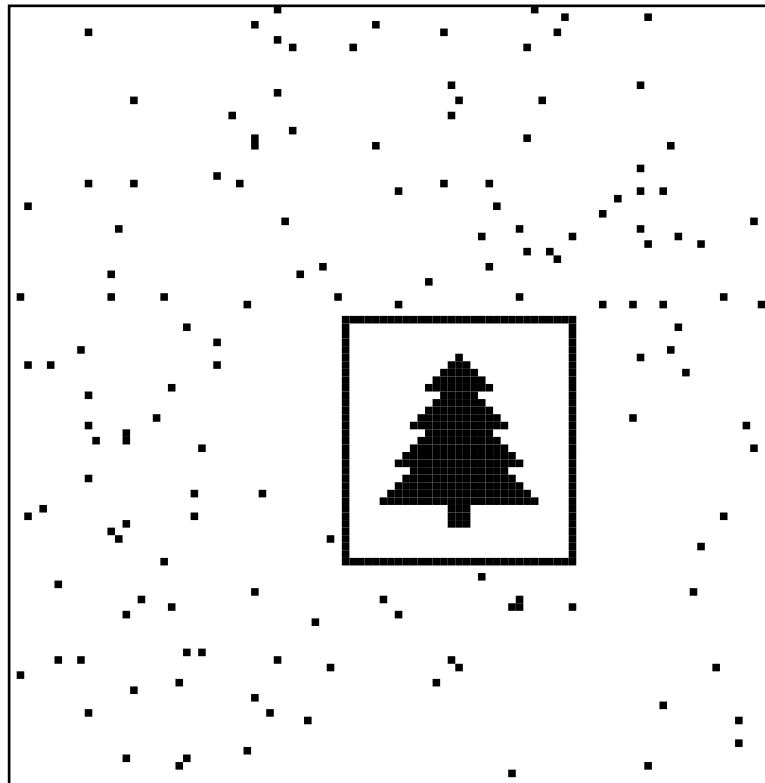


Figure 17: Christmas tree easter egg

Result: 8270

Day 15★★

Puzzle 1

Example '1' passes

Example '2' passes

Result: 1526018

Puzzle 2

Example '2' passes

Result: 1550677

Day 16

Puzzle 1

Example '1' fails

Expected '7036' got '0'

Example '2' fails

Expected '11048' got '0'

Result: 0

Puzzle 2

Day 17★

Puzzle 1

Example '1' passes

Result: "2,7,6,5,6,0,2,3,1"

Puzzle 2

Example:

0,3,5,4,3,0

ADV: A >= 3

OUT: OUT(A & 0b111)

JNZ: IF A != 0 {PC = 0}

Input:

2,4,1,5,7,5,1,6,4,2,5,5,0,3,3,0

BST: B = A & 0b111

BXL: B ^= 5

CDV: C = A >> B

BXL: B ^= 6

BXC: B ^= C

OUT: OUT(B & 0b111)

ADV: A >= 3

JNZ: IF A != 0 {PC = 0}

Day 18★

Puzzle 1

Example passes

| | | | | | | |
|---|---|---|---|---|---|---|
| O | O | | # | O | O | O |
| | O | # | O | O | # | O |
| | O | O | O | # | O | O |
| | | | # | O | O | # |
| | | # | O | O | # | |
| | # | | O | # | | |
| # | | # | O | O | O | O |

Figure 18: Example (visualization)

Result: 290

Puzzle 2