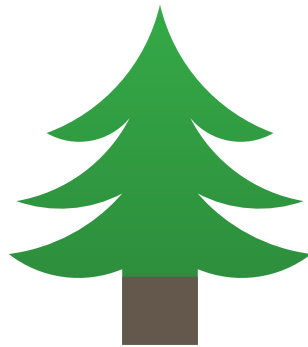


# Advent of Code

— 2024 —

*by Lord Baryhobal*



Stars: 33 / 50

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

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## 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

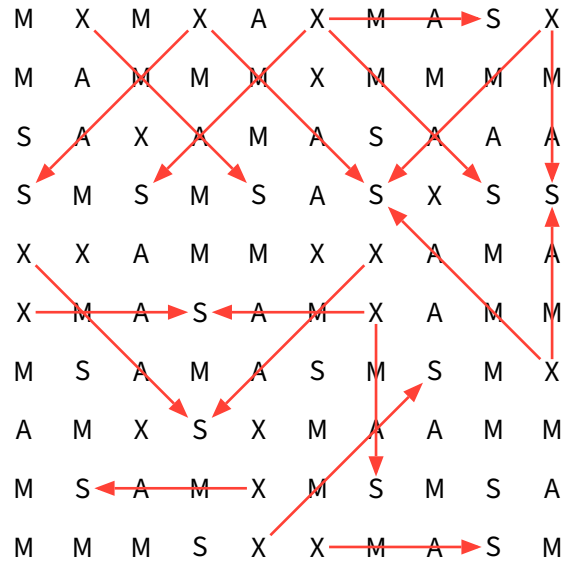


Figure 3: Example (visualization)

Result: 2654

### Puzzle 2

Example passes

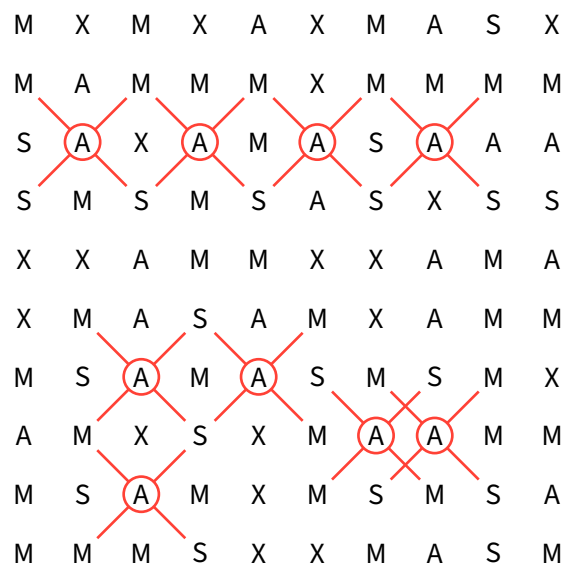


Figure 4: Example (visualization)

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

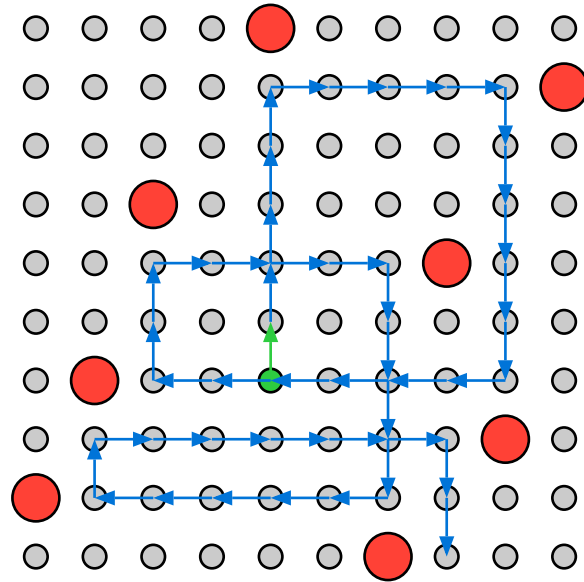


Figure 6: Example (visualization)

Result: 4752

### Puzzle 2

Example passes

Result: 1719



## Day 7★★

### Puzzle 1

Example passes

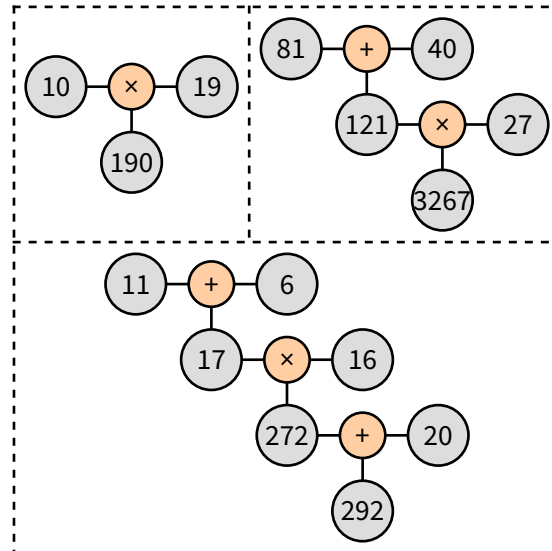


Figure 7: Example (visualization)

Result: 850435817339

### Puzzle 2

Example passes



Figure 8: Example (visualization)

Result: 104824810233437

## Day 8☆☆

### Puzzle 1

Example passes

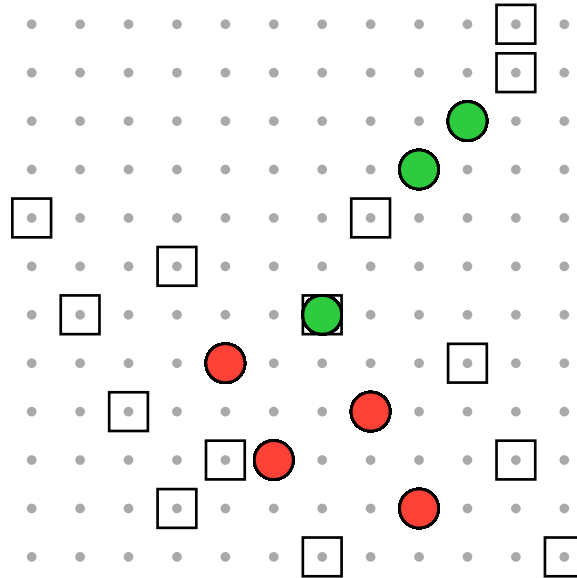


Figure 9: Example (visualization)

Result: 265

### Puzzle 2

Example passes

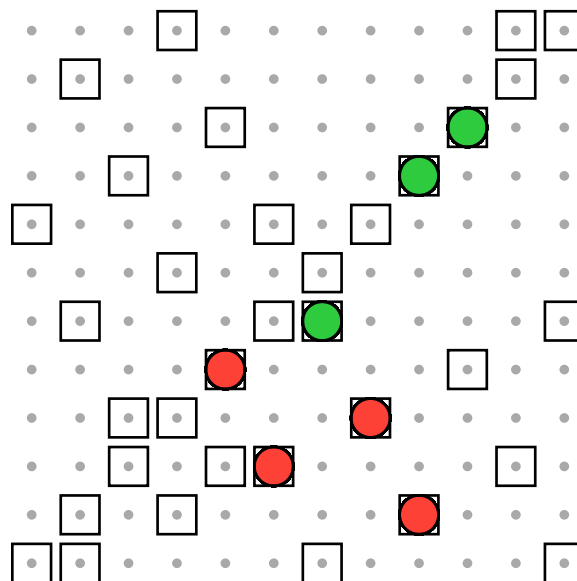


Figure 10: Example (visualization)

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

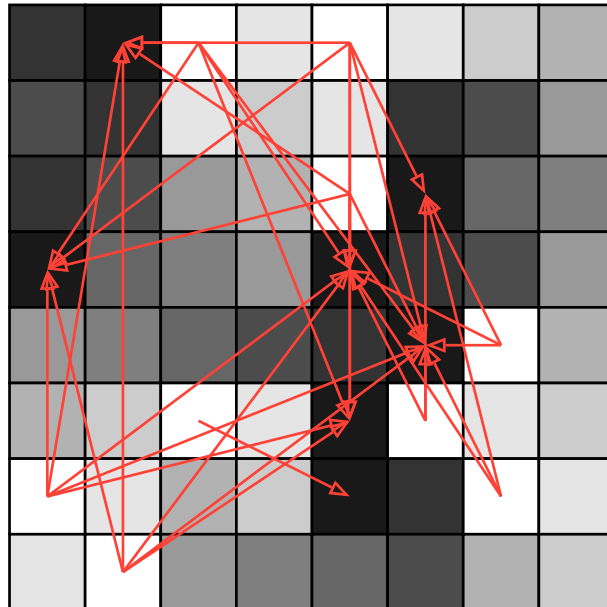


Figure 15: Example (visualization)

Result: 825

### Puzzle 2

Example passes

Result: 1805

## Day 11 ★★

### Puzzle 1

Example passes

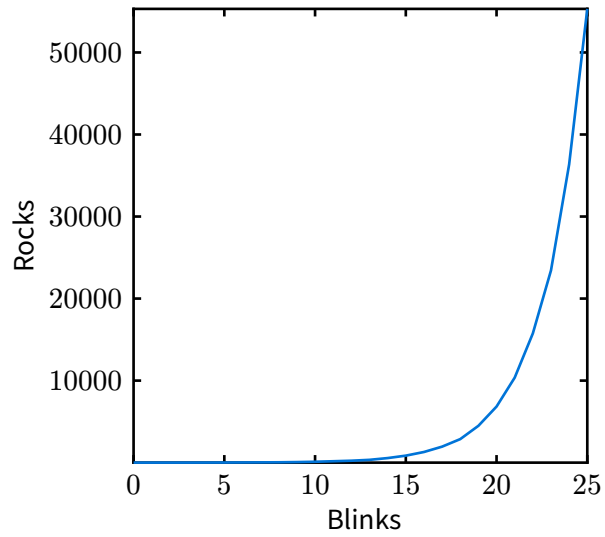


Figure 16: Example (visualization)

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

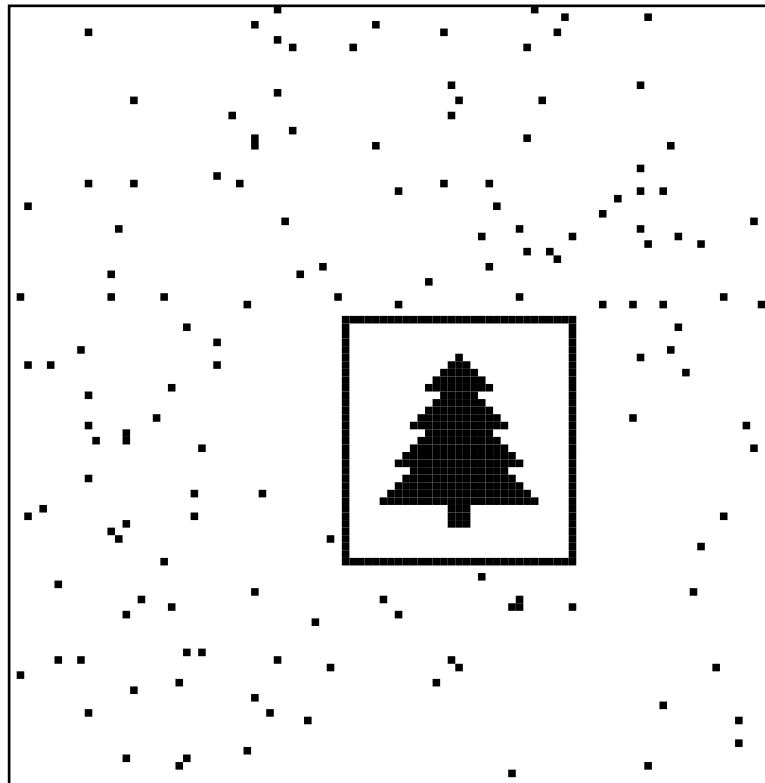


Figure 17: Christmas tree easter egg

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

Example passes

Result: "64,54"