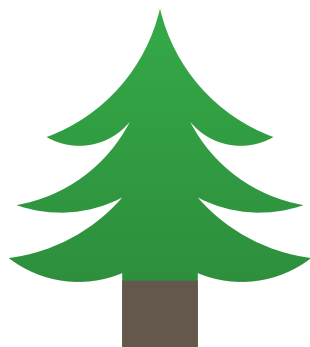


# Advent of Code

— 2024 —

*by Lord Baryhobal*



Stars: 38 / 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 19★★	21
Puzzle 1	21
Puzzle 2	21
Day 20★	22
Puzzle 1	22
Puzzle 2	22
Day 21	23
Puzzle 1	23
Puzzle 2	23
Day 22★	24
Puzzle 1	24
Puzzle 2	24
Day 23★	25
Puzzle 1	25
Puzzle 2	25

## 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

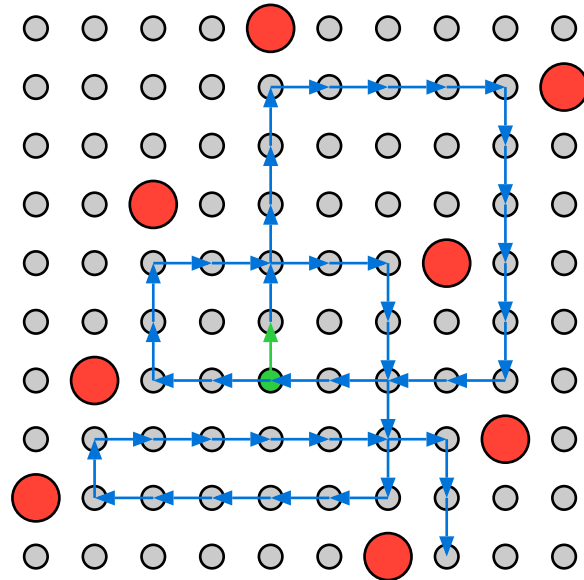


Figure 6: Example (visualization)

Result: 4752

### Puzzle 2

Example passes

Result: 1719



## Day 7★★

### Puzzle 1

Example passes

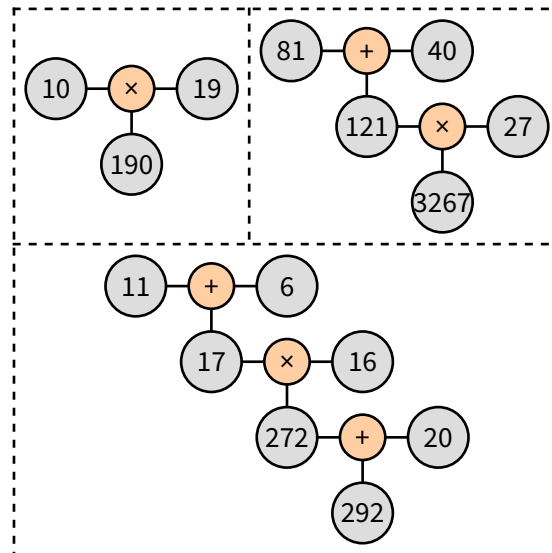


Figure 7: Example (visualization)

Result: 850435817339

### Puzzle 2

Example passes

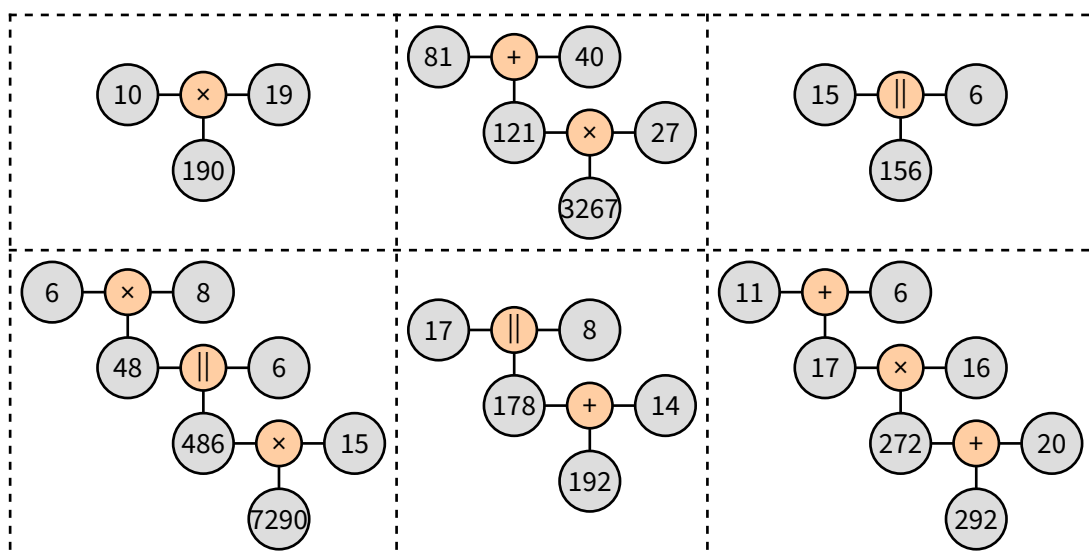


Figure 8: Example (visualization)

Result: 104824810233437

## Day 8 ★★

### Puzzle 1

Example passes

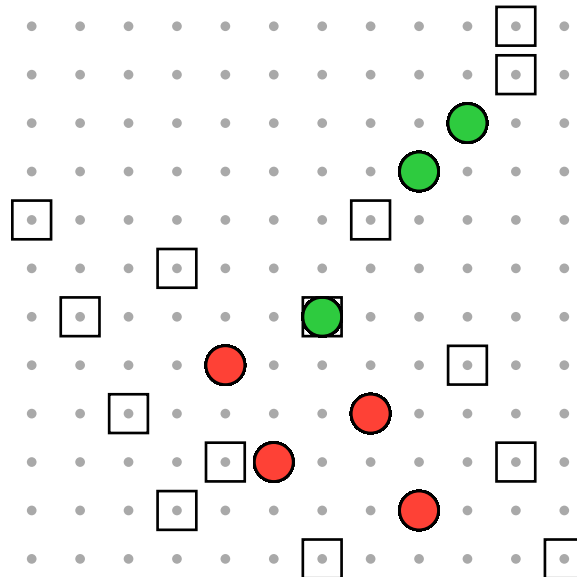


Figure 9: Example (visualization)

Result: 265

### Puzzle 2

Example passes

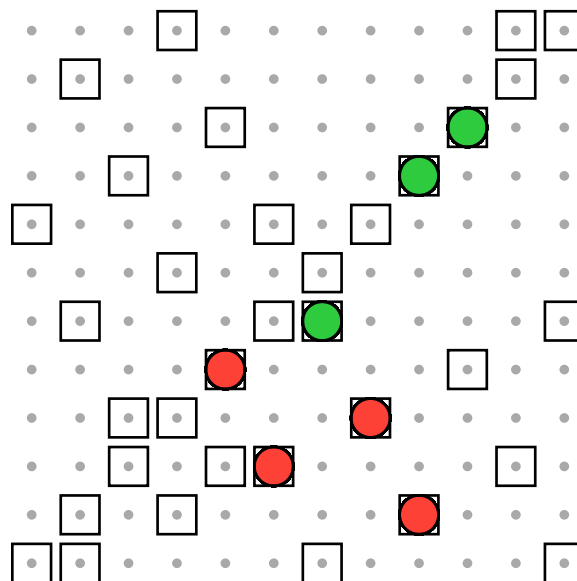


Figure 10: Example (visualization)

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

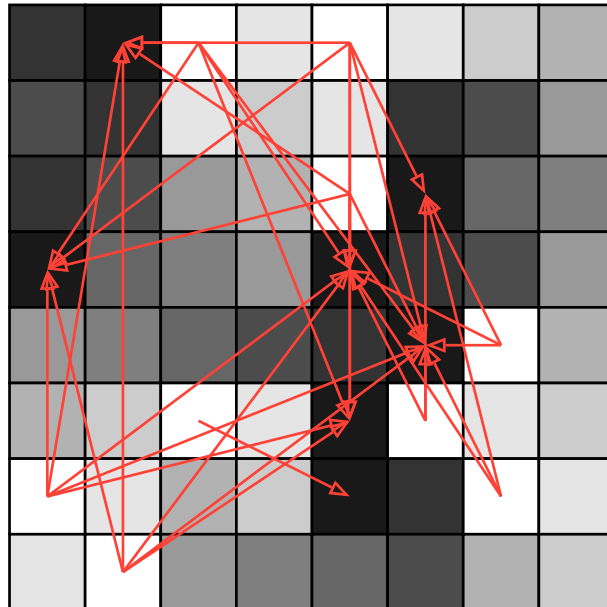


Figure 15: Example (visualization)

Result: 825

### Puzzle 2

Example passes

Result: 1805

## Day 11 ★★

### Puzzle 1

Example passes

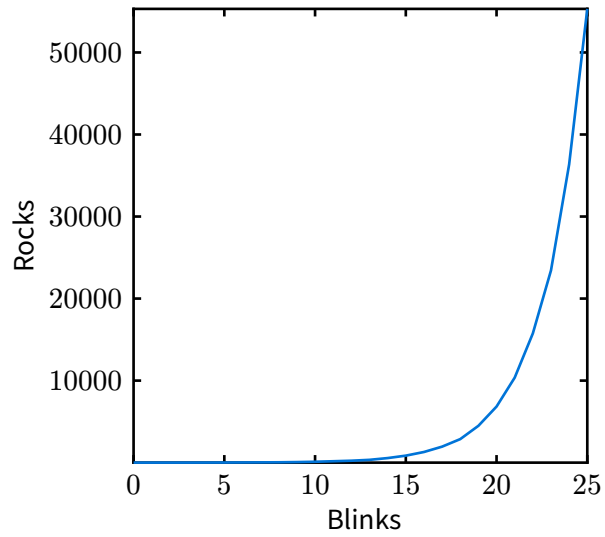


Figure 16: Example (visualization)

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

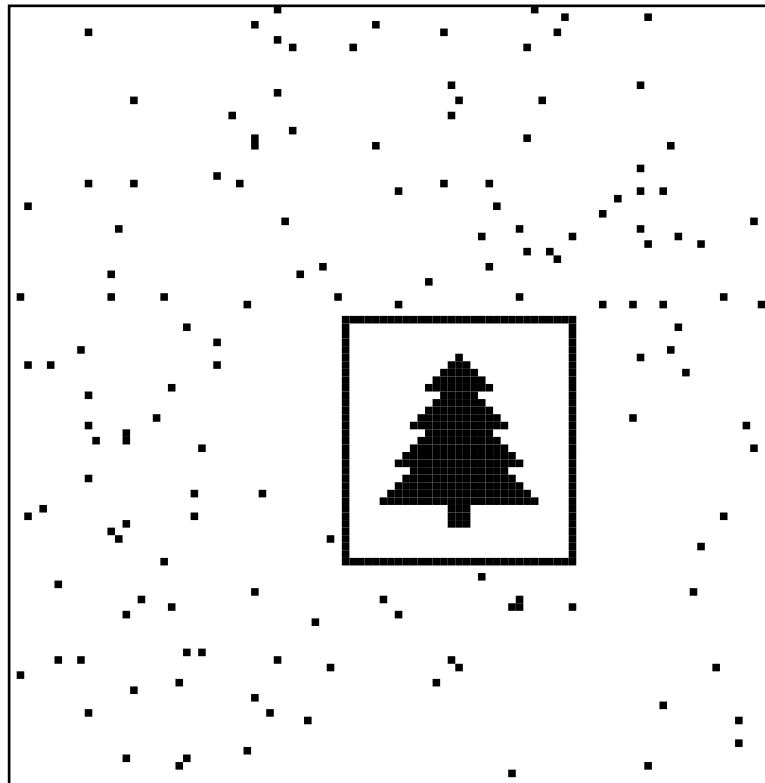


Figure 17: Christmas tree easter egg

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"

## Day 19★★

### Puzzle 1

Example passes

Result: 258

### Puzzle 2

Example passes

Result: 632423618484345

## Day 20★

### Puzzle 1

Example passes

Example passes

Example passes

Example passes

Example passes

Example passes

Example passes

Example passes

Example passes

Example passes

Example passes

Result: 1429

### Puzzle 2

## Day 21

### Puzzle 1

Example passes

Result: 170862

### Puzzle 2

## Day 22

### Puzzle 1

Example passes

Example passes

Example passes

Example passes

Example passes

Example passes

Example passes

Example passes

Example passes

Example passes

Result: 18261820068

### Puzzle 2



## Day 23

### Puzzle 1

Example passes

Result: 1344

### Puzzle 2