▼ Day4.jl — Pluto.jl 12/4/21, 01:23

```
· using PlutoUI
```

```
parse_board_line (generic function with 1 method)
parse_file (generic function with 1 method)
```

Problem 1

isbingo (generic function with 1 method)

```
function isbingo(board)
    rows, cols = size(board)
    for r in 1:rows
        if (all(board[r,:] .== -1))
            return true
        end
end

for c in 1:cols
        if (all(board[:, c] .== -1))
            return true
        end
end

return false
end
```

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simulate_bingo_games! (generic function with 1 method)

50008

```
0.004140 seconds (102.35 k allocations: 7.396 MiB)
```

```
open("./Day4/prob_input.txt") do io

with_terminal() do
    lines = [line for line in eachline(io)]
    nums, boards = parse_file(lines)
    @time num, winning_board = simulate_bingo_games!(nums, boards)
    winning_board[winning_board .== -1] .= 0
    num * sum(vcat(winning_board...))
    end
end
```

Problem 2

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boards = boards[updated_boards]
end

end

end

17408

```
0.016393 seconds (199.92 k allocations: 14.592 MiB, 44.36% gc time)
```

return num, boards[won_bingo][1]

```
open("./Day4/prob_input.txt") do io

with_terminal() do
    lines = [line for line in eachline(io)]
    nums, boards = parse_file(lines)
    @time num, winning_board = simulate_bingo_games_to_end!(nums, boards)

winning_board[winning_board .== -1] .= 0
    num * sum(vcat(winning_board...))
    end
end
```