Advent of Code 2020

Zach Bogart

2020-12-12

Day 9: Encoding Error

Click for Problem Statement

input = tibble(x = readLines("inputs/09-input.txt")) %>%
 mutate(x = as.numeric(x),
 row = row_number())

Part 1

```
check_current_value = function(input, n) {
  start = n-25
  end = n-1
  check_data = input %>%
    slice(start: end) %>%
    pull(x)
  check_grid = expand.grid(check_data, check_data) %>%
    mutate(sum = Var1 + Var2) %>%
    pull(sum) %>%
    unique()
  current_value = pull(input[n, "x"])
  return(current_value %in% check_grid)
}
data = input %>%
slice(26:nrow(.))
part1 = data %>%
 rowwise() %>%
 mutate(in_previous_sum = check_current_value(input, row))
part1 %>%
 filter(!in_previous_sum)
## # A tibble: 1 x 3
## # Rowwise:
##
            x row in_previous_sum
##
         <dbl> <int> <lgl>
## 1 105950735 565 FALSE
```

Part 2

```
invalid_number = part1 %>%
filter(!in_previous_sum) %>%
pull(x)
```

The rest of this is a mess...

Understanding David Robinson's solution:

```
## # A tibble: 1 x 7
## start end subset total smallest largest answer
## <int> <int> <int> <dbl> <dbl> <dbl> <dbl> <dbl> 
## 1 449 465 <dbl [17]> 105950735 4117189 9709726 13826915
```