

54 seconds to build the binary search trees

This section runs at order of (n^3) due to running a for loop, into a while loop, into another for loop to properly create each of the search trees.

Enter the state(e.g. IL):

IL

Enter the date(e.g. 2022-09-08):

2022-09-08

Entering the state and date is a simple order of (1) as it is just singular inputs.

6766 reports are available for IL on and after the date 2022-09-08

0 milliseconds to calculate this using children count fields

This section has an order of (N) due to it running a for loop exactly once to find the proper state to compare values in.

-50658 reports are available for IL on and after the date 2022-09-08

3 milliseconds to calculate this using recursive method

This section has an order of (N) due to it running a for loop exactly once to find the proper state to compare values in.

Bugs/Issues

Step 3 currently does not output the correct information due to incorrect math and not using the date to limit the amount of reports being read by the method.