

#15 Days of Coding Challenge

#Day 8

Simplify path

#Leetcode 71

Solution:

```
class Solution {
public:
    string simplifyPath(string path) {

        stack <string> st;
        string res;
        for(int i = 0; i < path.length(); i++)
        {
            if(path[i] == '/')
                continue;

            string temp = "";
            while(i < path.size() && path[i] != '/')
            {
                temp += path[i];
                i++;
            }

            if(temp == ".")
            {
                continue;
            }

            else if(temp == "..")
            {
                if(!st.empty())
                    st.pop();
            }
            else
```

```
        {
            st.push(temp);
        }
    }
    while(!st.empty())
    {
        res = "/" + st.top() + res;
        st.pop();
    }

    if(res.length() == 0)
        return "/";

    return res;
}
};
```

Time Complexity: $O(n)$

Space Complexity: $O(n)$