LeetCode 71

Description

Given an absolute path for a file (Unix-style), simplify it.

```
For example,
path = "/home/", => "/home"
path = "/a/./b/../../c/", => "/c"
```

Thought

Analyse the examples to find the problem can turn into a problem using stack.

Solution

```
public String simplifyPath(String path) {
    Deque<String> stack = new LinkedList<>();
    Set<String> skip = new HashSet<>(Arrays.asList("..",".",""));
    for (String dir : path.split("/")) {
        if (dir.equals("..") && !stack.isEmpty()) stack.pop();
        else if (!skip.contains(dir)) stack.push(dir);
    }
    String res = "";
    for (String dir : stack) res = "/" + dir + res;
    return res.isEmpty() ? "/" : res;
}
```

Takeaways

Turn non-programing problem into a programing problem