**import java.util.LinkedList;**

**import java.util.Scanner;**

**import java.util.Stack;**

**public class Simplfy\_Path {**

**public static String simplifyPath(String path) {**

**Stack<String> stack = new Stack<String>();**

**while(path.length()> 0 && path.charAt(path.length()-1) =='/'){**

**path = path.substring(0, path.length()-1);**

**}**

**int start = 0;**

**for(int i=1; i<path.length(); i++){**

**if(path.charAt(i) == '/'){**

**stack.push(path.substring(start, i));**

**start = i;**

**}else if(i==path.length()-1){**

**stack.push(path.substring(start));**

**}**

**}**

**LinkedList<String> result = new LinkedList<String>();**

**int back = 0;**

**while(!stack.isEmpty()){**

**String top = stack.pop();**

**if(top.equals("/.") || top.equals("/")){**

**//nothing**

**}else if(top.equals("/..")){**

**back++;**

**}else{**

**if(back > 0){**

**back--;**

**}else{**

**result.push(top);**

**}**

**}**

**}**

**if(result.isEmpty()){**

**System.out.println("/");**

**return "/";**

**}**

**StringBuilder sb = new StringBuilder();**

**while(!result.isEmpty()){**

**String s = result.pop();**

**sb.append(s);**

**}**

**System.out.println(sb.toString());**

**return sb.toString();**

**}**

**public static void main(String[] args) {**

**Scanner sc = new Scanner(System.in);**

**System.out.println("Enter the String");**

**String c = sc.nextLine();**

**simplifyPath(c);**

**}**

**}**