//BUFFER 5.0 ‘TASK SCHEDULER’ CODE

//PIRATES OF THE BOOLEAN (FY)

package sem2practice;

import java.util.\*;

import java.io.\*;

public class Main {

public static void main(String args[]) {

//User Interface Menu

Scanner sc=new Scanner(System.in);

String a;

System.out.println("\n");

operations op=new operations();

System.out.println("\*\*\*\*\* WELCOME TO CUMMINS DAILY TASK SCHEDULER \*\*\*\*\*\*");

System.out.println("\n");

System.out.println("The key to your success is hidden in your daily routine");

System.out.println("\n");

System.out.println("enter no of tasks");

int n=sc.nextInt();

for(int i=0;i<n;i++){

//Formation of Stack

op.add();

}

//Displaying the Stack

op.disp(n);

System.out.println("Enter 1 if you have completed your current task \nEnter 2 to check the upcoming task\n " );

int choice=0;

for(int i=0;i<(3\*n);i++)

{

try

{

choice=sc.nextInt();

// User operation menu

switch(choice){

case 1:

op.remove ();

break;

case 2:

op.peek();

break;

}

}catch(EmptyStackException v) {

System.out.println("Great work! You are done for the day");

}

catch(InputMismatchException h) {

System.out.println("Invalid input");

}

}

}}

class operations extends Main{

Scanner sc=new Scanner(System.in);

Stack<String> stack2 = new Stack<String>();

Stack<String> stack1=new Stack<String>();

//operation 1

public void add() {

System.out.println("enter task");

String a=sc.nextLine();

stack2.push(a);

System.out.println(stack2);

System.out.println("\n");

}

public void disp(int j) {

String temp;

// Reversing Stack2 and storing it in Stack for display function

for(int i=0;i<j;i++) {

temp=stack2.pop();

stack1.push(temp);

}

}

//Operation 2

void remove(){

stack1.pop();

System.out.println("Task completed");

System.out.println("\n");

System.out.println("Enter 1 if you have completed your current task \nEnter 2 to check the upcoming task\n " );

}

//Operation 3

public void peek(){

System.out.println("Next task is "+stack1.peek());

System.out.println("\n");

System.out.println("Enter 1 if you have completed your current task \nEnter 2 to check the upcoming task\n " );

}

}

//THE END! Hope you liked the project :)