01. Party Profit

package ExamPrep.TechFundMidExam4November2018;

import java.util.Scanner;

public class P1PartyProfit {

public static void main(String[] args) {

Scanner scanner = new Scanner(System.in);

int partySize = Integer.parseInt(scanner.nextLine());

int days = Integer.parseInt(scanner.nextLine());

int coins = 0;

for (int i = 1; i <= days; i++) {

if (i % 10 == 0) {

partySize -= 2;

}

if (i % 15 == 0) {

partySize += 5;

}

coins += 50;

coins -= partySize \* 2;

if (i % 3 == 0) {

coins -= 3 \* partySize;

}

if (i % 5 == 0) {

coins += 20 \* partySize;

if (i % 3 == 0) {

coins -= 2 \* partySize;

}

}

}

System.out.println(String.format("%d companions received %.0f coins each.",partySize,Math.floor((double) coins/partySize)));

}

}

## 02. Dungeonest Dark

package ExamPrep.TechFundMidExam4November2018;

import java.util.Arrays;

import java.util.Scanner;

public class P2DungeonestDark {

public static void main(String[] args) {

Scanner scanner = new Scanner(System.in);

String[] rooms = scanner.nextLine().split("\\|");

String[] commands = new String[2];

int health = 100;

int coins = 0;

for (int i = 0; i < rooms.length; i++) {

commands = rooms[i].split(" ");

if (commands[0].equals("potion")) {

if (health == 100) {

System.out.println("You healed for 0 hp.");

} else {

health += Integer.parseInt(commands[1]);

if (health > 100) {

int healed = Integer.parseInt(commands[1]) - (health - 100);

health = 100;

System.out.println(String.format("You healed for %d hp.", healed));

}else {

System.out.println(String.format("You healed for %d hp.", Integer.parseInt(commands[1])));

}

}

System.out.println(String.format("Current health: %d hp.", health));

} else if (commands[0].equals("chest")) {

coins += Integer.parseInt(commands[1]);

System.out.println(String.format("You found %d coins.", Integer.parseInt(commands[1])));

} else {

if (health - Integer.parseInt(commands[1]) > 0) {

health -= Integer.parseInt(commands[1]);

System.out.println(String.format("You slayed %s.", commands[0]));

}else {

System.out.println(String.format("You died! Killed by %s.",commands[0]));

System.out.println(String.format("Best room: %d",i+1));

return;

}

}

}

System.out.println(String.format("You've made it!\nCoins: %d\nHealth: %d",coins,health));

}

}

## 03. Quests Journal

package ExamPrep.TechFundMidExam4November2018;

import java.util.Arrays;

import java.util.List;

import java.util.Scanner;

import java.util.stream.Collectors;

public class P2QuestsJournal {

public static void main(String[] args) {

Scanner scanner = new Scanner(System.in);

List<String> journal = Arrays.stream(scanner.nextLine().split(", ")).collect(Collectors.toList());

String input = scanner.nextLine();

while (!input.equals("Retire!")) {

String[] commands = input.split(" - ");

switch (commands[0]) {

case "Start":

if (!journal.contains(commands[1])) {

journal.add(commands[1]);

}

break;

case "Complete":

if (journal.contains(commands[1])){

journal.remove(commands[1]);

}

break;

case "Side Quest":

String[] cmd = commands[1].split(":");

if (journal.contains(cmd[0])&&!journal.contains(cmd[1])){

journal.add(journal.indexOf(cmd[0])+1,cmd[1]);

}

break;

case "Renew":

if (journal.contains(commands[1])){

journal.remove(commands[1]);

journal.add(commands[1]);

}

break;

}

input = scanner.nextLine();

}

System.out.println(String.join(", ",journal));

}

}