**课 后 作 业[[1]](#footnote-1)**

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| **课程名称** | Java应用与开发 | **开课学期** | 2018年秋季学期 |
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简答题

1. 题目

2. 题目

编程题

1. 题目

Code: Hello.java

//package ouc.cs.course.java.test.poke;

import java.util.Random;

import java.util.\*;

public class Poke {

private static String[] suit = {"Heart", "Spade", "Diamond", "Club"};

private static String[] face = {"A", "2","3", "4", "5", "6", "7", "8", "9", "10", "J", "Q", "K"};

public static String[] createCard(int number){

String[] cards = new String[number\*52];

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

for(int j=0; j<52; j++){

cards[i\*52+j] = suit[((i\*52+j)/13)%4] +face[(i\*52+j)%13];

}

}

return cards;

}

public static void display(String[] cards){

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

System.out.print(cards[i]+"   ");

if((i+1) % 13 == 0)

System.out.println();

}

}

public static void shuffle(String[] cards){

Random rand = new Random();

int num = 0;

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

num =rand.nextInt(cards.length);

String temp = cards[i];

cards[i] = cards[num];

cards[num] = temp;

}

}

public static void distribute(String[] cards, int player){

String[][] cardsOfPlayer = new String[player][cards.length/player+1];

int index = 0;

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

cardsOfPlayer[i%player][index] = cards[i];

if((i+1)%player==0)

index++;

}

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

System.out.println("玩家"+(i+1)+":");

int sum=0;

for(int j=0; j<cardsOfPlayer[i].length; j++){

if(cardsOfPlayer[i][j] != null){

System.out.print(cardsOfPlayer[i][j]+" ");

sum++;

}

}

System.out.println("共"+sum+"张牌");

}

}

public static void main(String[] args) {

System.out.println("该扑克游戏需要几付扑克牌?");

Scanner sc = new Scanner(System.in);

int num = sc.nextInt();

String[] cards = Poke.createCard(num);

System.out.println("该扑克游戏有几个玩家?");

Scanner sp = new Scanner(System.in);

int per = sp.nextInt();

System.out.println("\n显示所有的牌:");

Poke.display(cards);

Poke.shuffle(cards);

System.out.println("\n显示分配给每个人的牌:");

Poke.distribute(cards, per);

}

}

2. 题目

结果

该扑克游戏需要几付扑克牌?

1

该扑克游戏有几个玩家?

4

显示所有的牌:

HeartA   Heart2   Heart3   Heart4   Heart5   Heart6   Heart7   Heart8   Heart9   Heart10   HeartJ   HeartQ   HeartK

SpadeA   Spade2   Spade3   Spade4   Spade5   Spade6   Spade7   Spade8   Spade9   Spade10   SpadeJ   SpadeQ   SpadeK

DiamondA   Diamond2   Diamond3   Diamond4   Diamond5   Diamond6   Diamond7   Diamond8   Diamond9   Diamond10   DiamondJ   DiamondQ   DiamondK

ClubA   Club2   Club3   Club4   Club5   Club6   Club7   Club8   Club9   Club10   ClubJ   ClubQ   ClubK

显示分配给每个人的牌:

玩家1:

Diamond8 Heart10 Spade6 Spade4 DiamondQ Spade9 SpadeQ Club6 HeartQ Club7 Heart3 Diamond5 SpadeJ 共13张牌

玩家2:

HeartK Club4 Diamond3 Club5 Spade5 Club3 Spade2 Club2 Diamond10 Diamond2 Heart2 DiamondJ Club9 共13张牌

玩家3:

ClubK ClubJ Club10 ClubQ Heart7 Spade10 Spade3 HeartJ Diamond6 SpadeK Diamond7 Club8 DiamondK 共13张牌

玩家4:

Diamond4 Heart9 Heart6 Heart4 Heart8 Diamond9 Spade8 SpadeA ClubA DiamondA Heart5 Spade7 HeartA 共13张牌

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