import java.util.Random;  
import java.util.Scanner;  
  
class GuessNumberGame{  
 //This is main method for comparison of given number by user and choose number by computer.  
 public void guess(int a,int b,int c){  
 if(c==1 && a!=b){  
 System.*out*.println("Your guess is wrong.");  
 System.*out*.println("Attempt number 1 is fail, 2 attempts remain.");  
 System.*out*.print("The hint is: the number present in group ");  
 System.*out*.println(hint1(a));  
 }  
 else if(c>1 && c<3 && a!=b){  
 System.*out*.println("Your guess is wrong.");  
 System.*out*.println("Attempt number 2 is fail, 1 attempts remain.");  
 System.*out*.print("The hint is: The number present in ");  
 hint2(a);  
 }  
 else if(c==3 && a!=b){  
 System.*out*.println("You lose");  
 System.*out*.println("The number computer choose is: "+a);  
 System.*out*.println("Reason of lose -->Your all attempts are end.");  
  
 }  
 else{  
 System.*out*.println("Your guess is correct and the number is choose by computer is: "+a);  
 }  
 }  
  
 // instruction method gives all instruction about the guess game.  
 public void instruction(){  
 System.*out*.println("Each player get 3 attempt to guess number.");  
 System.*out*.println("If hint is group A then the number computer choose is between 1 to 5");  
 System.*out*.println("If hint is group B then the number computer choose is between 6 to 10");  
 System.*out*.println("If hint is group C then the number computer choose is between 11 to 15");  
 System.*out*.println("If hint is group D then the number computer choose is between 16 to 20");  
 }  
  
 //hint1 method gave a first hint about the number which is computer choose.  
 public char hint1(int a){  
 char group;  
 if(a<=5){  
 return group='A';  
 }  
 else if (a>5 && a<=10) {  
 return group='B';  
 }  
 else if(a>10 && a<=15){  
 return group='c';  
 }  
 else{  
 return group='D';  
 }  
 }  
  
  
 // hint2 method gave a second hint about a number that choose by computer.  
 public void hint2(int a){  
 if(avg(a)<a){  
 System.*out*.println("The number computer choose is grater than the "+avg(a));  
 }  
 else if (avg(a)>a){  
 System.*out*.println("The number computer choose is smaller than the "+avg(a));  
 }  
 else{  
 System.*out*.println("The number computer choose is avg of that group.");  
 }  
  
 }  
  
 // avg method gave avg of every group.  
 public int avg(int a){  
 int sum=0;  
 switch (hint1(a)){  
 case 'A':  
 int[]x={1,2,3,4,5};  
 for(int y:x){  
 sum+=y;  
 }  
 break;  
 case 'B':  
 int[]z={6,7,8,9,10};  
 for(int y:z){  
 sum+=y;  
 }  
 break;  
 case 'C':  
 int[]w={11,12,13,14,15};  
 for(int y:w){  
 sum+=y;  
 }  
 break;  
 case 'D':  
 int[]q={16,17,18,19,20};  
 for(int y:q){  
 sum+=y;  
 }  
 break;  
 }  
 return (sum/5);  
 }  
}  
public class Task1 {  
 public static void main(String[] args) {  
 Scanner sc= new Scanner(System.*in*);  
 System.*out*.println("The numbers of player which is participate in this game.");  
 int players =sc.nextInt();  
 Random ra= new Random();  
 GuessNumberGame obj = new GuessNumberGame();  
 System.*out*.println("The limit for choose the number is 1 to 20 and instruction are given below.");  
 obj.instruction();  
 for(int i=1;i<=players;i++){  
 System.*out*.println("the player"+i+" is playing.");  
 int computernum=ra.nextInt(1,20);  
 for(int j=1;j<=3;j++){  
 System.*out*.println("Enter your number.");  
 int playernum=sc.nextInt();  
 obj.guess(computernum,playernum,j);  
 if(playernum==computernum){  
 break;  
 }  
 }  
 }  
 }  
}