JAVA - ESERCIZI DI CODICE

DATABASE BANCARIO - 16/06/2021 ⑤

```
public class Account{
        public int cod;
        public String mame;
        public String surmame;
        public float money;
        public Account(String line)
                cod= integer.parseInt(line.split()[0]);
                name =line.split()[1];
                surname: line.split()[2];
                money = Float.parseFloat(line.split()[3]);
        }
}
import java.util.*;
import java.io.*;
public class Bank{
        ArrayList<Account> accounts = new ArrayList<>();
        public Bank(String path){
                File f= new File(path);
                try{
                        Scanner in =new Scnner(f);
                        while(im.hasNextLine()){ accounts.add(new Account(in.nextLine()));}
                }catch(FileNotFoundException e){ System.out.println("File non trovato");}
        }
        public void showRichestAccountData(){
                if(accounts.size()>0){
                        Account tmp= Accounts.get(0);
                        for( a: Account in accounts){ if(a.money>tmp){tmp=a;}}
                        System.out.primtlm("il conto con saldo maggiore e': "+tmp.mame+tmp.surname);
                else{ System.out.primtlm("mom ci somo comti!");
        }
        public void showAccountWithNegMoney(){
                System.out.println("i conti con saldo negativo sono :");
                for(a:Account im accoumts){ if(a.money<0){System.out.println(a.mame + a.surmame);}}
        }
        public void showAvgMoney(){
                int m=0;
                float sum=0;
                for(a:Account im accoumts){
                        if(a.money>=0){
                                m++;
                                sum+= a.momey;
                        }
                }
                if(m!=0){System.out.primtlm("il saldo medio e': "+String.valueOf(sum/(float)m));
                else{System.out.primtlm("mom ci somo conti con saldo positivo");
        }
}
```

LANCIO DADI E RIPETIZIONI - 17/05/2021 (2)

```
import java.util.*;
public class Main{
        public static void main(String[] args){
                ArrayList<Integer> seq =new ArrayList<>();
                Random rng = new Random();
                for(int i=0; i<20;i++){ seq.add(rng.nextInt(6)+1 ;}
                int maxRep=1;
                int tmpRep=1;
                int index=0;
                for(int i=0; i<20;i++){
                        if(seq.get(i)==seq.get(i+1)){
                                tmpRep+=1;
                        }else{
                                if(tmpRep >maxRep){
                                        maxRep=tmpRep;
                                        index=i;
                                tmpRep=1;
                        }
                }
                int start=0;
                for(int i=index;seq.get(i)==seq.get(index);i--){start=index-1;}
                for(int i=0; i<20;i++){
                        System.out.println(String.valueOf(seq.get(i)));
                        if(i==start){System.out.println("(" );
                        else if(i==index){System.out.println(")");
                }
        }
}
```

RESPONSABILE ALBERGO - 17/05/2023 ⑤

```
public class Client{
        public String name;
        public String service;
        public float price;
        public String timeStamp;
        public Client(String line){
                String data[]=line.split(";");
                if(data.lenght != 3){
                        System.out.println("errore formato per: "+line);
                        return;
                else{
                        name = data[0];
                        service =data[1];
                        price =Float.parseFloat( data[2]);
                        timeStamp = data[3];
                }
        }
}
import java.util.*;
import java.io.*;
pubic class Main{
        public static void main(String[] args){
                ArrayList<Client> clients=new ArrayList<>();
                try{
                        File f=new File("file.txt"); //PERCORSO FILE
                        Scanner in = new Scanner(f);
                        while(in.hasNextLine()){ clients.add(new Client(in.nextline()));}
                }catch(FileNotFoundException e){ System.out.println("File non trovato");}
                HashMap<String, Float> services = new HashMap<>();
                for(client: Client in clients){
                        if(!services.containsKey(client.service)){ services.put(client.service,client.price);}
                        else{
                                float fetch= services.get(client.service);
                                services.put(client.service,client.price+fetch);
                        }
                }
                for( s : String in services.keySet()){
                        System.out.println("servizio: "+ s +" prezzo : " + String.valueOf(services.get(s)));
                }
        }
}
```

AEREI - 19/05/2021 ⑥

```
public class Plane{
        public int cod;
        pubic Plane(int cod){ this.cod= cod;}
}
import java.util.*;
public class Airport{
        Arraylist<Plane> planes =new ArraList<>();
        Queue<Plane> takeOFF = new LinkedList<>();
        Queue<Plane> land     = new LinkedList<>();
        public Airport(ArrayList<Plane> p){ planes=p;}// IL COSTRUTTORE INIZIALIZZA LA LISTA DI AEREI
        private Plane search(int cod){
                for(p:Plane in planes){ if(p.cod== cod){return p;}}
                return NULL;
        }
        public void takeOff( int cod){ if(search(cod)){takeOff.add(search(cod));}
        public void   land (int cod){if(search(cod)){land.add(search(cod));}
        pubic void next( ){
                if(land.size()!=0){land.poll();}
                else{ takeOff.poll();}
        }
}
```