

Model unice 1

II List<Imobil> list = new ArrayList();

list.add(new Imobil("Casa", "Buc", 3, 2500.2, 75000.5));

list.add(new Imobil("Apartment", "Constanta", 2, 100.5, 100000.1));

list.add(new Imobil("Apartment", "Iasi", 1, 50.5, 50000.1));

a) List<Imobil> list1 = new ArrayList();

list1 = list.stream()

filter(i -> i.getNrCamere() >= 3 &&  
i.getPret() <= 100000)

sorted((i1, i2) -> i1.getSuprafata() - i2.getSuprafata())

toList();

for (Imobil i: list1)

System.out.println(i);

b) List<String> loc = list.stream

map(Imobil::getLocalitate)  
distinct()

System.out.println(loc); toList();



```

c) List<Imobil> list3 = list.stream()
    .filter(d -> d.getLocalitate()
    .equals("Bucurati"))
    .filter(d -> d.getPret() >= 200000
    && d.getPret() <= 500000)
    .toList();
for (Imobil i: list3)
    System.out.println(i);

```

```

d) for (loc String loca: loc) {
    List<Imobil> rez = list.stream()
    .filter(d -> d.getLocalitate().equals
    (loca))
    .distinct()
    .toList();
    for (Imobil im: rez)
        System.out.println(im);
}

```



```

III. class FirNumarava extends Thread {
    private final String numeFisier;
    private final int smin;
    private final int cmin;
    private int nrAparitii;

    public FirNumarava(String numeFisier, int smin,
        int cmin, nrAparitii) {
        this.numeFisier = numeFisier;
        this.smin = smin;
        this.cmin = cmin;
        this.nrAparitii = 0;
    }

    public int getNrAparitii() {
        return nrAparitii;
    }

    @Override
    public void run() {
        try {
            Scanner s = new Scanner(new File(numeFisier));
            while (s.hasNextLine()) {
                String line = s.nextLine();
                String[] prop = line.split("[.,;:?! \\n]+");
                int c = Integer.parseInt(prop[2]);
                int s = Integer.parseInt(prop[3]);
            }
        }
    }
}

```



```
if (c >= cmin && s >= smin)
    nrAparatii++;
```

```
}
```

```
s s.close();
```

```
public static void main (String[] args) {
```

```
    Scanner sc = new Scanner(System.in);
```

```
    int s = sc.nextInt();
```

```
    int c = sc.nextInt();
```

```
    FirNumarare f1 = new FirNumarare("agentie PentSole",  
                                       s, c);
```

```
    FirNumarare f2 = new FirNumarare("agentie PentSole-2",  
                                       s, c);
```

```
    f1.start();
```

```
    f1.join();
```

```
    f2.start();
```

```
    f2.join();
```

```
    int nrTotalAparatii = f1.getNrAparatii() + f2.get
```

```
    System.out.println(nrTotalAparatii);
```

```
}
```



IV.

```
class Adresa {  
    String adresa;  
    public Adresa(String adresa) {  
        this.adresa = adresa;  
    }  
    public String getAdresa() {  
        return adresa;  
    }  
    public void setAdresa(String adresa) {  
        this.adresa = adresa;  
    }  
}
```

```
class Firma {  
    private final String nume;  
    private final int nrAngajati;  
    private final double profit;  
    private final Adresa adresa;  
    public Firma(String nume, int nrAngajati, double  
profit, Adresa adresa) {  
        this.nume = nume;  
        this.nrAngajati = nrAngajati;  
        this.profit = profit;  
        this.adresa = new Adresa(adresa.getAdresa());  
    }  
}
```

```
public String getNemell()
    return nome;
```

```
public int getNrAngajat()
    return nrAngajati;
```

```
{
    public double getProfit() {
        return profit;
```

```
}
    public Adresa getAdresa() {
        return new Adresa (adresa.getAdresa());
    }
}
```

- I. 1. a)  
 2. d)  
 3. c)  
 4. ~~b~~ d)  
 5. b)

a b r a c a d a b r a  
 A B R A C A D A B R A  
 0 1 2 3 4 5 6 7 8 9 10  
 ↑

$$n=1, g=8$$

$$\Delta = (0, 4)$$

A B D E C