

Correction Devoir Surveillé

Matière : Programmation Orientée Objets

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Groupes : LA2-RI

Calculatrices: Non autorisées

```
class Horaire{
    int heure, minute ;
    public void Initialiser (int h, int m )
    { heure= h ;
      minute =m;
    }
    public String toString() {return (heure + ":"+ minute);}
}
class Aeroport {
    String Designation;
    public void Initialiser (String n ) { Designation = n;}
    public String toString() {return Designation;}
}
class Vol{
    Aeroport Aero_depart, Aero_destinat;
    Horaire hor_depart , hor_arriv;
    String comp , id ;
    int capacite, n_passagers ;
    float poids_max;

    public void Initialiser (String c,String i, Aeroport dep, Aeroport dest ,Horaire h_d, Horaire
    h_a)
    {
        Aero_depart = dep;
        Aero_destinat = dest;
        hor_depart =h_d;
        hor_arriv=h_a;
        comp =c;
        id =i;
    }
    public String toString() {
        return (Aero_depart+"/"+ Aero_destinat + "/" + hor_depart + "/" + hor_arriv + "/" +comp
        + "/" +id + "/" +Duree()/60 + "/" + Duree()%60 + "/" +n_passagers) ;}
}
```

```
int Duree () {return (hor_arriv.heure - hor_depart.heure)*60 + hor_arriv.minute -  
hor_depart.minute;}
```

```
void Reserver(float poids) {  
    if (n_passagers == capacite)  
        {System.out.println("Dépassement de capacité");  
        return;  
        }  
    if (poids>poids_max)  
        {System.out.println("Dépassement de poids autorisé");  
        return;  
        }  
    n_passagers++;  
}
```

```
int NombreSiegesDispo() {return capacite -n_passagers;  
    }
```

```
float PoidsTotal() {return n_passagers * poids_max; }  
}
```

class Rextester

```
{  
    public static void main(String args[])  
    {  
        Aeroport ad=new Aeroport (), aa =new Aeroport ();  
        Horaire hd=new Horaire(), ha=new Horaire();  
        ad.Initialiser("Monastir");  
        aa.Initialiser("Orly");  
        hd.Initialiser(15,30);  
        ha.Initialiser(17,45);  
        Vol v = new Vol();  
        v.Initialiser ("Air France", "AFR002", ad, aa ,hd, ha);  
        System.out.println(v);  
    }  
}
```