

## Class Woman

```
public class Woman {  
  
    private String name;  
    private int age;  
    private Man husband;  
  
    public Woman(String name, int age) {  
        this.name = name;  
        this.age = age;  
        husband = null;  
    }  
  
    public String getName() {  
        return name;  
    }  
    public int getAge() {  
        return age;  
    }  
    public void setHusband(Man husband) {  
        this.husband = husband;  
    }  
    public void display(){  
        System.out.println("Name: " + name);  
        System.out.println("Age: " + age);  
        if(husband != null){  
            System.out.println("Husband name: " +  
husband.getName());  
            System.out.println("Husband age: " +  
husband.getAge());  
        }  
    }  
}
```

## Class Man

```
public class Man {

    private String name;
    private int age;
    private Woman [] arrWives;
    private int nbWives;
    public Man(String name, int age){
        this.name = name;
        this.age = age;
        arrWives = new Woman[4];
        nbWives = 0;
    }
    public boolean addWife(Woman wife){
        if(nbWives >= arrWives.length)
            return false;
        wife.setHusband(this);
        arrWives[nbWives++] = wife;
        return true;
    }
    public void displayWivesInfo(){
        for(int i = 0; i < nbWives; i++)
            arrWives[i].display();
    }
    public void divorce(Woman w){
        for(int i = 0; i < nbWives; i++)
            if(arrWives[i].getName().equalsIgnoreCase(w.getName())
                && arrWives[i].getAge() == w.getAge()){
                arrWives[i].setHusband(null);
                arrWives[i] = arrWives[nbWives-1];
                arrWives[--nbWives] = null;
            }
    }

    public Woman getYoungestWife(){
        if(nbWives == 0) return null;
        Woman youngest = arrWives[0];
        for(int i = 1; i < nbWives; i++)
            if(arrWives[i].getAge() < youngest.getAge())
                youngest = arrWives[i];
        return youngest;
    }
}
```

```
public Woman[] getWives(int a){
    int size = 0;
    for(int i = 0; i < nbWives; i++)
        if(arrWives[i].getAge() < a)
            size++;
    Woman [] temp = new Woman[size];
    int counter = 0;
    for(int i = 0; i < nbWives; i++)
        if(arrWives[i].getAge() < a)
            temp[counter++] = arrWives[i];
    return temp;
}
public String getName() {
    return name;
}
public int getAge() {
    return age;
}
}
```