

```
public class Woman {

    private int age;
    private String name;
    private Man husband;

    public Woman(int age, String name) {
        this.age = age;
        this.name = name;
        husband = null;
    }

    public void setHusband(Man husband){
        this.husband = husband;
    }
    public int getAge() {
        return age;
    }
    public String getName() {
        return name;
    }

    public void display(){
        System.out.println("Woman name: " + name);
        System.out.println("Woman age: " + age);
        if(husband != null){
            System.out.println("Husband name: "
                               + husband.getName());
            System.out.println("Husband age: "
                               + husband.getAge());
        }
    }
}
```

```
public class Man {

    private int age;
    private String name;
    private Woman arrWives[];
    private int nbWives;

    public Man(int age, String name) {
        this.age = age;
        this.name = name;
        arrWives = new Woman [4];
        nbWives = 0;
    }

    public int getAge() {
        return age;
    }

    public String getName() {
        return name;
    }

    public boolean addWife(Woman wife){
        if(nbWives < arrWives.length){
            arrWives[nbWives] = wife;
            arrWives[nbWives].setHusband(this);
            nbWives++;
            return true;
        }
        return false;
    }
}
```

```

public void displayWivesInfo(){
    if(nbWives == 0){
        System.out.println("He is single");
    }
    else{
        for(int i = 0; i < nbWives; i++){
            System.out.println("Wife " + (i+1)
                + "\nName: " + arrWives[i].getName()
                + "\nAge: " + arrWives[i].getAge());
        }
    }
}

```

```

public boolean divorce(Woman W){
    int index = -1;
    for(int i = 0; i < nbWives; i++){
        if(arrWives[i].getName().equals(W.getName())){
            index = i;
        }
    }
    if(index == -1) return false;
    arrWives[index] = arrWives[--nbWives];
    return true;
}

```

```

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

```

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