

```
class Airplane implements Cloneable, java.io.Serializable {
```

```
    class Engine implements java.io.Serializable {  
        private boolean onFire = false;  
        void catchOnFire(){  
            if(!onFire){  
                faultCounter++;  
                onFire = true;  
            }  
        }  
    }  
}
```

```
    Engine[] engines = new Engine[4];  
    private int faultCounter = 0;
```

```
    Airplane(){  
        for (int i=0; i<engines.length; i++){  
            engines[i] = new Engine();  
        }  
    }
```

```
    boolean warningLightOn(){return faultCounter > 0;}
```

```
    public Object clone(){  
        try {  
            ByteArrayOutputStream baos = new ByteArrayOutputStream(100);  
            ObjectOutputStream oos = new ObjectOutputStream(baos);  
            oos.writeObject(this);  
            ByteArrayInputStream bais =  
                new ByteArrayInputStream(baos.toByteArray());  
            ObjectInputStream ois = new ObjectInputStream(bais);  
            return ois.readObject();  
        }  
        catch (Exception e){  
            throw new InternalError(e.toString());  
        }  
    }  
}
```