```
class ArrayOutputStream extends ObjectOutputStream {
    Vector dataVector ;

    public Object replaceObject(Object obj) {
        if(obj instanceof int []) {
            dataVector.addElement(obj)
            return new ArrayIntProxy(((int []) obj).length) ;
        }
        ... deal with other primitive array types ...
        else
            return obj
    }
}

class ArrayInputStream extends ObjectInputStream {
    Vector dataVector ;

    public Object resolveObject(Object obj) {
        if(obj instanceof ArrayIntProxy) {
            int dat = new int [((ArrayIntProxy) obj).length] ;
            dataVector.addElement(dat)
            return dat ;
        }
        ... deal with other array proxy types ...
        else
            return obj
    }
}
```