

```
public class SemaphoreStudentBooks implements IStudentBooks {
    Semaphore NumSOS;
    Semaphore NumLab;

    public SemaphoreStudentBooks () {
        NumSOS = new Semaphore (3);
        NumLab = new Semaphore (4);
    }
    public void borrowBooks () {
        NumSOS.P();
        NumLab.P();
        System.out.println("Got the books, left" );
    }
    public void returnBooks () {
        NumSOS.V();
        NumLab.V();
        System.out.println("Returned the books" );
    }
    public void donateBook (String bookname) {
        if(bookname.compareTo("SOS") == 0){
            NumSOS.V();
            System.out.println("Donated a SOS" );
        }
        else if(bookname.compareTo("LabManual" ) == 0){
            NumLab.V();
            System.out.println("Donate a LabMan" );
        }
        else {
            System.out.println("That's not valid." );
        }
    }
}
```