Here at UCF, the Computer Science Department (CSD), a class is either a lecture (LEC) or a lab (LAB). For each class (lecture or lab), we store a Course Number or crn (a unique five-digit number assigned for each lecture/lab), a prefix (like COP3330), title (like Introduction to Object Oriented Programming), location (like CB 2-201), Modality (Online, Face-to-Face or Mixed Mode), and whether the lecture is a graduate or undergraduate. Note that online lectures don't have labs. The list of lectures and labs is provided in lec.txt, a textfile that is provided with this HW.

Lines in *lec.txt* are of the form:

CRN,PREFIX,LECTURE TITLE,GRADUTE/UNDERGRADUTE/MODALITY,BUILDING CODE-ROOM NUMBER,LAB(YES/NO)

Examples:

89745,COT6578,Advanced Computer theory,Graduate,F2F,PSY-108,No

32658,COT6578,Advanced Computer theory,Graduate,Mixed,LPS-35,No

That means that the CSD offers two sections of COT6578, one is F2F and the other is online. Both of those sections don't have labs.

When a lecture has a lab, the labs' information is provided right after the lecture information

Example:

69745,COP5698, Programming Languages,Graduate,F2F,CB2-122,YES

19745,MSB-123

36598,PSY-100

20315,HSA1-116

That means the COP5698 with crn 69745 has three labs. 19745, 36598 and 20315 are the crns of the labs. MSB-123, PSY-100 and HSA1-116 are the building-room numbers where those labs are scheduled to take place.

Note that if the Modality is Online, then the line of the lec.txt has the form:

CRN,PREFIX,LECTURE TITLE,GRADUTE/UNDERGRADUTE/ONLINE

Example:

89745,COP4578,Software Engineering,Undergraduate,Online

Write a Java program that:

1) Counts how many online classes offered at the CSD
2) Displays the crns of the lectures and Labs that are being held in a given classroom that you ask the user for.
3) Create a textfile (name it lecturesOnly.txt) that lists the online and the no-lab lectures. See sample run below

Note Well: The structure of lec.txt is to remain unchanged but the classes being offered may be different when the TA grades your work

Sample Run:

- There are 4 online lectures offered
- Enter the classroom: MSB-123

   The crns held in MSB-123 are: 19745

- lecturesOnly.txt is created

Goodbye !

Given the content of lec.txt, lecturesOnly.txt should be:

Online Lectures

66636,DIG2158,Introduction to Digital Systems,Undergraduate,Online

36636,SOF2058,Introduction to Software,Undergraduate,Online

51180,CDL2587,Introduction to Computers,Undergraduate,online

36637,SOF2058,Introduction to Software,Undergraduate,Online

Lectures with No Lab

89745,COT6578,Advanced Computer theory,Graduate,F2F,PSY-108,No

32658,COT6578,Advanced Computer theory,Graduate,Mixed,LPS-35,No