Room Scheduling Program:

Background:

The goal of this exercise is to create a program that will help a room scheduler to schedule the use of rooms in building. Each room will have a capacity (number of people it can have) and a room number. There are three types of meetings that can be held in a week

1) A class meeting – the class meeting should have a priority in the schedules. If a class meeting will be scheduled, then even if there is a prior event scheduled in the room, the class meeting will be prioritized. The prior event will be scheduled in a different room (same timeslot) or to the same room, closest timeslot possible.

2) A small meeting – This meeting can only be scheduled in a room with a capacity of atmost 20 people.

3) A large meeting – This meeting can only be scheduled in a room with a capacity that is at least of the same number as the number of attendees in the meeting.

The calendar that will be done will be for a day long calendar. Rooms can be reserved from 0600 - 1800

Input

ROOMS.txt – the program should be able to read the ROOM.txt file to initialize the rooms. This contains a series of texts, containing the room numbers and the room size.

Screens: ▪▪▪

Do you want to reserve a room? (Y/N)

What kind of meeting will you have (1: Class meeting, 2: Small meeting, 3: Large meeting)

How many people will there be?

What time will it be scheduled (Start Time): (*format will be hhmm*)

What time will it end (End Time): (*format will be hhmm*)

Room Reserved!

OR

Room Not available, please select another time

What time will it be scheduled (Start Time): (*format will be hhmm, military time*)

What time will it end (End Time): (*format will be hhmm, military time*)

OR

Room Reserved! The previously scheduled event will be scheduled on

Main Page: ▪▪▪

1) Do you want to reserve a room ? (goes to the earlier text)
2) Do you want to view room schedules?
3) Do you want to clear all schedules?
4) Do you want to exit?

●●

If (2) is selected

ROOM 1: Schedule: 0700 – 1000 – class meeting, 1130 – 1200 – small meeting…
ROOM 2: Schedule:…

If (3) is selected – all schedules will be freed.