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## 1 1

### 1.1

(2.2.1ii) `schedule_conflict(Time,Place, Course1,Course2)`

### 1.2

:

- 
- 

`=(A, B, C) :- =(A, B), =(B, C).`

```
time_inside_intervals(time(GivenDay, GivenTime),
                      time(Day1, Start1, Fin1),
                      time(Day2, Start2, Fin2)) :-
    =(Day1, Day2, GivenDay),
    between(GivenTime, Start1, Fin1),
    between(GivenTime, Start2, Fin2).
```

```
schedule_conflict(time(GivenDay, GivenTime), GivenLocation, Course1, Course2) :-
    course(Course1, Time1, Lecturer1, _),
    course(Course2, Time2, Lecturer2, _),
    time_inside_intervals(time(GivenDay, GivenTime), Time1, Time2),
    =(Lecturer1, Lecturer1),
    \=(Course1, Course2).
```

```
schedule_conflict(time(GivenDay, GivenTime), GivenLocation, Course1, Course2) :-
    course(Course1, Time1, _, Location1),
    course(Course2, Time2, _, Location2),
```

```
time_inside_intervals(time(GivenDay, GivenTime), Time1, Time2),  
=(Location1, Location1),  
\=(Course1, Course2).
```