CS5811 Interval algebra example

1. I will meet (M) with you right before lunch (L) or right after lunch:

```
    M
   /|
  L | M
```

2. I teach a class (C) right before lunch.

3. Meeting and class cannot overlap, they must be disjoint:
   \[ M \smallseteq C, \ M \smallseteq M, \ C \smallseteq M, \ C \smallseteq C. \]
   Convert all the constraints so that they are from M to C:
   \[ M \smallseteq C, \ M \smallseteq C, \ M \smallseteq C, \ M \smallseteq C. \]

The constraint graph is as follows:

```
    M
   /|
  C | L
```

\[ \{b, bi, m, mi\} \quad \{m, mi\} \]

\[ \{m\} \]