CSCE 330 Fall 2000

QUIZ 34

Assigned Wednesday 00/12/8

Here is a very small Prolog program:

```
overlaps(B1,D1, B2,D2) :- B2 >= B1, B2 =< D1.
overlaps(B1,D1, B2,D2) :- B1 >= B2, B1 =< D2.
```

What would be the answer to the following four queries?

```
?- overlaps(1,5, 2,3).
?- overlaps(3,10, 2,4).
?- overlaps(1678,1750, 1685,1750).
?- overlaps(1678,1750, 1813,1901).
```

Answer: true, true, true, false.

What do the three pair of numbers in the last two queries represent? (Hint: Yesterday was an important day with reference to the pair (1813, 1901). This question will not be graded!)

Answer: In order, the dates of birth and death of Antonio Vivaldi, Johann Sebastian Bach, and Giuseppe Verdi. Yesterday (day of the feast of St. Ambrose) was the traditional beginning of the Opera Season.