Quiz 8 MAT 118, Spring 2003

**PRINT your Name:**

**circle your section**
2 Tues 11:20
3 Thur 12:50
4 Tues 5:30

1. Consider the following variation of the game of Nim:

   The game begins with the four digits 1,2,3,4 in a line:

   1 2 3 4

   Players take turns crossing out either one or two **adjacent** digits. (For example, on your first move, you could cross out 3&4 but not 1&4.) The winner is the player who crosses out the last digit.

   Draw a partial game tree that shows that the player who goes first always has a winning strategy, no matter what the other player does.

2. Circle which date you prefer for the second midterm.

   April 14 April 21 No preference