EECS 281:	Homework #6	Due: Thursday, March 24, 2005
Name:	Email:	

1a. Given the recurrent equation $t_n = 2t_{n-1} + n$ and $t_0 = 0$, give the values for $t(0), t(1), \ldots, t(7)$.

1b. Translate the recurrent equation into C statements, where variable n using register R3, and variable t using register R4.

1c. Translate 1b into 8051 assembler and run it using as31. **Hand-in** the output listing with comments showing the C statements related to the assembler code.

1d. Run your code in the J51 simulator for t(7). Hand-in a screen print of the simulator showing the final register values.