Spring 2003

Good luck!

1. Solve the recurrence relation

$$F(1) = 2$$

 $F(n) = 2F(n-1) + 2^n \text{ for } n \ge 2.$

Note:

$$S(n) = c^{n-1}S(1) + \sum_{i=2}^{n} c^{n-i}g(i)$$