**Multiplication Target Game Homework**



With a target of 1000, the first player is guaranteed to win if he plays correctly. If the second player always multiplies by 2, give the sequence of digits that the first player should use to win AS QUICKLY AS POSSIBLE and with the highest product.

(Note that the above problem differs from problem 2 of the hand-out given in class in which the first player had to start with a 4.)