

B. 2) The running time complexity of the function is $O(\log(n))$ because my recursive calls are constantly dividing the exponents by 2.

B.3) My algorithm has 10 multiplications.

$$X^{63} = X^{31} * X^{31} * X$$

$$X^{31} = X^{15} * X^{15} * X$$

$$X^{15} = X^7 * X^7 * X$$

$$X^7 = X^3 * X^3 * X$$

$$X^3 = X * X * X$$