Homework 11

- 1. I would find 4³ = 64 and 5³ = 125 to conclude that the cubed root of 82 is not 4, but it would be if it needed to round to an integer value.
- 2. We cannot conclude that, because there are a large amount of numbers between values to a certain power. Using the example from question 1, any number n between (not including) 64 and 125 would fit the requirements, but 'root' would still not be equal to the rth root of n.
- 3. There is no reason to try a guess where g is less than 0, since the rth root of a number is going to turn out to be positive in any case, despite the negative of that value being an equally valid answer. Guessing g where it is greater than n is only a valid guess when r is less than 1.
- 4. lowEnough = 1, tooHigh = n. I don't really know what this should be because there's no given value of n or r to work with here. Surely these values are low enough and too high, respectively.
- 5. I would start at a number halfway between 1 and 47226, then decide on my next guess after that depending on if the first guess was too high or too low (interval halving).