HW2 (Due Jan 29 before class)

Give asymptotic upper and lower bounds for in each of the following recurrences. Assume that is a constant. Make your bounds as tight as possible, and justify your answers.

HW3 (Due Feb 3 before class)

Implement the selection sort and heap sort algorithms. Use the language of your choice. Generate arrays of random integers to produce a figure showing run time comparisons. Be sure to highlight the crossover point (the array size at which heap sort is faster than selection sort). Turn in a listing of your code along with this figure.