1. **Answer the following questions:**
   1. *Describe in words the relative pattern of number of expanded states for UCS and A\* with the two different heuristics.*
   2. *Why do we find that pattern?*
   3. *Describe in words the relative pattern of number of expanded states for Iterative Deepening and IDA\* with the two different heuristics.*
   4. *Why do we find that pattern? And how does that pattern compare to what you saw in 6A and 6B?*
   5. *Describe the memory usage (max states in memory) that you observed for UCS, and the two variations of A\*.*
   6. *Describe the relative memory usage (max states in memory) that you observed for Iterative Deepening and IDA\* with the two different heuristics.*
   7. *Explain the memory usage that you observed for the three iterative deepening algorithms (IDA\* and ID) versus the others (UCS and A\*).*