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**AI Project 2**

1. a) If you consistently pick the higher h value (lower g value), you will be exploring the nodes closer to the start and thus expand/ explore more nodes than you need to in order reach the goal state.

b) By picking larger g-values, you are choosing the lower h value and moving closer to the goal state. Because you are moving towards the goal, you will have to expand less cells. This means that only some of the non-goal states whose f-values are equal to c\* will be expanded.

c) Choosing the lower h value means that you will always explore the ones closest to the goal state first. This means that each time you will either calculate the value for the same number of cells or less than the algorithm that chooses the smaller g-value.

2)

