

Pseudocode of A* Search Algorithm

make an openlist containing only the starting node

make an empty closed list

while (the destination node has not been reached):

 consider the node with the lowest f score in the open list

 if (this node is our destination node) :

 we are finished

 if not:

 put the current node in the closed list and look at all of its neighbors

 for (each neighbor of the current node):

 if (neighbor has lower g value than current and is in the closed list) :

 replace the neighbor with the new, lower, g value

 current node is now the neighbor's parent

 else if (current g value is lower and this neighbor is in the open list) :

 replace the neighbor with the new, lower, g value

 change the neighbor's parent to our current node

 else if this neighbor is not in both lists:

 add it to the open list and set its g