During the lectures we considered the heuristic algorithm given below for solving Vertex Cover (VC).
Make as few changes to this algorithm as possible in order to modify it into a heuristic algorithm for solving Independent Set (IS).
Mark your changes on the copy of the algorithm given below.

1. Compute the degree of every vertex.

2. Select the vertex with the LOWEST degree and add it to the INDEPENDENT SET.

3. Remove the selected vertex and all its NEIGHBORING VERTICES from the graph.

4. If the graph has at least one VERTEX, go to Step 1.

Note: Adding a step that returns the complement set to the vertex cover does not qualify for as few changes as possible.
During the lectures we considered the heuristic algorithm given below for solving Vertex Cover (VC).
Make as few changes to this algorithm as possible in order to modify it into a heuristic algorithm for solving CLIQUE.
Mark your changes on the copy of the algorithm given below.

1. Compute the degree of every vertex.

2. Select the vertex with the highest degree and add it to the CLIQUE.

3. Remove the VERTICES THAT ARE NOT CONNECTED TO THE SELECTED VERTEX.

4. If the graph has at least one VERTEX, go to Step 1.