# Kevin Martin

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To reduce MaxClique to independent set, we will take graph G and create G’, which has the same nodes but opposite edges (if there was an edge remove, and vice versa). Suppose we find S that is an independent set from G’. So if u, v are in S, they are not in G’, but it is in G. So the independent set in G’ is the same as the MaxClique in G.

1. The conversion is in polynomial time because we simply reverse the edges in G to make G’
2. We can recover our solution in polynomial time as well because we just examine which nodes are present in the independent set
3. If there is a solution to the independent set, then it will give us the solution to MaxClique for the graph G
4. Reversing this concept, the MaxClique of G is the independent set of G’