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Q2. Alg I
Find smallest # of V in G
to remove all triangles

While △ exists in G
"Delete all V in △
output deleted V

Proving 3 factor.
The given G proves Alg I is 3 factor.
Let G have n Triangles
If all Triangle share no vertices
Then the 3n vertices will be removed from G
Since only one vertice needs to be removed from each triangle, n vertices removed is Optimal, therefore this is 3-factor Opt
3n vs. n

G: