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**Problem Set 1**

**Discussion**

**Utility of Region Growing:**

Region growing makes it possible to bring points that have a similar color together as one region that can be operated on later.

**Limitations of Region Growing:**

When looping over the neighbors of selected points, since growing region has to check for all the neighbors (7) of each point in order to determine the neighbors of those neighbors (if they qualify), there is repetition of checking for neighbors that have neighbors that overlap, leading to some sort of inefficiency.