Homework 9: Q3

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# **Part (a): Proof Idea**

Recitation notes 12 section for help on Q3 part A I believe is enough to prove.

# **Part (b): Algorithm Idea**

1. **Part (b): Algorithm Details**

**Algorithm:** Algorithm1

1. **Part (b): Proof of Correctness Idea**
2. **Part (b): Proof Details**
3. **Part (b): Runtime Analysis**