

# CS325: Analysis of Algorithms, Winter 2024

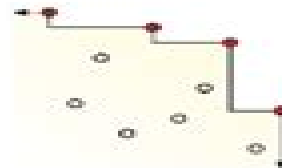
## Practice Assignment 2\*

Due: Tue, 2/6/24

### Homework Policy:

1. Students should work on practice assignments individually. Each student submits to CANVAS one set of typeset solutions in pdf format.
2. Practice assignments will be graded on effort alone and will not be returned. Solutions will be posted.
3. The goal of the assignments is for you to learn solving algorithmic problems. So, I recommend spending sufficient time thinking about problems individually before discussing them with your friends.
4. You are allowed to discuss the problems with others, and you are allowed to use other resources, but you must cite them. Also, you must write everything in your own words, copying verbatim is plagiarism.
5. More items might be added to this list. ©

**Problem 1.** Suppose you are given a set  $P$  of  $n$  points in the plane. A point  $p \in P$  is maximal in  $P$  if no other point in  $P$  is both above and to the right of  $p$ . Intuitively, the maximal points define a “staircase” with all the other points of  $P$  below it.



A set of ten points, four of which are maximal.

Describe and analyze an algorithm to compute the number of maximal points in  $P$  in  $O(n \log n)$  time.

**Problem 2.** Call a sequence  $X[1 \dots n]$  of numbers bitonic if there is an index  $i$  with  $1 < i < n$ , such that the prefix  $X[1 \dots i]$  is increasing and the suffix  $X[i \dots n]$  is decreasing. Describe an  $O(\log n)$  time algorithm to search a bitonic sequence of length  $n$  for a number  $k$ .

\*Some problems are from Jeff Erickson's lecture notes. Looking into similar problems from his lecture notes on recursion and dynamic programming is recommended.

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## **Table of Contents Cga Pa2 Assignment Solutions**

1. Understanding the eBook Cga Pa2 Assignment Solutions
  - The Rise of Digital Reading Cga Pa2 Assignment Solutions
  - Advantages of eBooks Over Traditional Books
2. Identifying Cga Pa2 Assignment Solutions
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Cga Pa2 Assignment Solutions
  - User-Friendly Interface
4. Exploring eBook Recommendations from Cga Pa2 Assignment Solutions
  - Personalized Recommendations
  - Cga Pa2 Assignment Solutions User Reviews and Ratings
  - Cga Pa2 Assignment Solutions and Bestseller Lists
5. Accessing Cga Pa2 Assignment Solutions Free and Paid eBooks
  - Cga Pa2 Assignment Solutions Public Domain eBooks
  - Cga Pa2 Assignment Solutions eBook Subscription Services
  - Cga Pa2 Assignment Solutions Budget-Friendly Options
6. Navigating Cga Pa2 Assignment Solutions eBook Formats

- ePub, PDF, MOBI, and More
- Cga Pa2 Assignment Solutions Compatibility with Devices
- Cga Pa2 Assignment Solutions Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Cga Pa2 Assignment Solutions
  - Highlighting and Note-Taking Cga Pa2 Assignment Solutions
  - Interactive Elements Cga Pa2 Assignment Solutions
- 8. Staying Engaged with Cga Pa2 Assignment Solutions
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Cga Pa2 Assignment Solutions
- 9. Balancing eBooks and Physical Books Cga Pa2 Assignment Solutions
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Cga Pa2 Assignment Solutions
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Cga Pa2 Assignment Solutions
  - Setting Reading Goals Cga Pa2 Assignment Solutions
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Cga Pa2 Assignment Solutions
  - Fact-Checking eBook Content of Cga Pa2 Assignment Solutions
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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