

# Sample questions for COMP-424 final exam

Doina Precup

These are examples of questions from past exams. They are provided without solutions. However, Doina and the TAs would be happy to answer questions about the solutions, if you try them. Note that the exam also has questions similar to those on the homeworks.

## 1. Search algorithms

- (a) Suppose you have an admissible heuristic  $h$ . Is  $h^2$  admissible? Is  $\sqrt{h}$  admissible? Would using any of these alternatives be better or worse than using  $h$  in the  $A^*$  algorithm?

**Answer:**  $h^2$  may not be admissible, because  $h^2 \geq h$  when  $h \geq 1$ , so it may exceed the optimal distance to goal.  $\sqrt{h} \leq h$  for  $h \geq 1$ , so it is admissible (assuming integer values for the heuristic, which is typical). It will likely work worse than  $h$ , though, because its estimate is farther from the optimal value (so it is a worse estimate of the cost-to-go).

- (b) Suppose you were using a genetic algorithm and you have the following two individual, represented as strings of integers:

1324421 and 2751421

Show the result of performing crossover between the 3rd and 4th digit.

**Answer:** 1321421 and 2754421

- (c) Which of the following statements, contrasting genetic algorithms and simulated annealing, are true?

- i. Genetic algorithms are used for minimization problems while simulated annealing is used for maximization problems

**Answer:** False

- ii. Genetic algorithms maintain several possible solutions, whereas simulated annealing works with one solution.

**Answer:** True

- iii. Genetic algorithms maintain one solution, whereas simulated annealing maintains several possible solutions.

**Answer:** False

- iv. Simulated annealing is guaranteed to produce the best solution, while genetic algorithms do not have such a guarantee.

**Answer:** True

# Genetic Algorithm Questions And Answers

**M Woodhall**



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## **Table of Contents Genetic Algorithm Questions And Answers**

1. Understanding the eBook Genetic Algorithm Questions And Answers
  - The Rise of Digital Reading Genetic Algorithm Questions And Answers
  - Advantages of eBooks Over Traditional Books
2. Identifying Genetic Algorithm Questions And Answers
  - 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 Genetic Algorithm Questions And Answers
  - User-Friendly Interface
4. Exploring eBook Recommendations from Genetic Algorithm Questions And Answers
  - Personalized Recommendations
  - Genetic Algorithm Questions And Answers User Reviews and Ratings
  - Genetic Algorithm Questions And Answers and Bestseller Lists
5. Accessing Genetic Algorithm Questions And Answers Free and Paid eBooks
  - Genetic Algorithm Questions And Answers Public Domain eBooks
  - Genetic Algorithm Questions And Answers eBook Subscription Services
  - Genetic Algorithm Questions And Answers Budget-Friendly Options

6. Navigating Genetic Algorithm Questions And Answers eBook Formats
  - ePub, PDF, MOBI, and More
  - Genetic Algorithm Questions And Answers Compatibility with Devices
  - Genetic Algorithm Questions And Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Genetic Algorithm Questions And Answers
  - Highlighting and Note-Taking Genetic Algorithm Questions And Answers
  - Interactive Elements Genetic Algorithm Questions And Answers
8. Staying Engaged with Genetic Algorithm Questions And Answers
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Genetic Algorithm Questions And Answers
9. Balancing eBooks and Physical Books Genetic Algorithm Questions And Answers
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Genetic Algorithm Questions And Answers
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Genetic Algorithm Questions And Answers
  - Setting Reading Goals Genetic Algorithm Questions And Answers
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Genetic Algorithm Questions And Answers
  - Fact-Checking eBook Content of Genetic Algorithm Questions And Answers
  - 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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