Week 11 Quiz

Due Apr 26 at 11:59pm **Points** 12 **Questions** 3 **Time Limit** 15 Minutes **Allowed Attempts** 2

Instructions



This quiz consists of three questions. To be successful with the module quizzes, it's important to read the assigned chapters and lecture slides. Keep the following in mind:

- Attempts: You will have two attempts for this quiz with your highest score being recorded in the grade book.
- **Timing:** You will need to complete each of your attempts in one sitting, and you are allotted 15 minutes to complete each attempt.
- Answers: You may review your answer choices and compare them to the correct answers after your final attempt.

To start, click the "Take the Quiz" button. When finished, click the "Submit Quiz" button.

Technical Support Technical Support

Need help using Canvas Quizzes? If so, please review the following guide: <u>Canvas Student Guide - Quizzes (https://community.canvaslms.com/docs/DOC-10701#jive_content_id_Quizzes)</u>

Take the Quiz Again

Attempt History

| | Attempt | Time | Score |
|--------|-----------|--------------------|--------------|
| LATEST | Attempt 1 | less than 1 minute | 12 out of 12 |

Score for this attempt: 12 out of 12

Submitted Apr 26 at 10:38am

This attempt took less than 1 minute.

Which of the following is true regarding crossover and mutation in genetic algorithms? Correct! Crossover rate is usually high; mutation rate is usually low. Crossover rate is usually low; mutation rate is usually high. Both crossover rate and mutation rate are usually high. Both crossover rate and mutation rate are usually low.

Which of the following is true regarding crossover and mutation operations in genetic algorithms? Correct! A genetic algorithm may converge if it has mutation operations but no crossover operations. A genetic algorithm will always converge no matter which operation it has. A genetic algorithm will always converge if it has crossover operations but no mutation operations.

A genetic algorithm must have both crossover and mutation operations in order to converge.

What offspring will be generated considering the following parents and mask in uniform crossover? Mask: 11001110 Parent #1: 10100011 Parent #2: 00110100 10100010 and 00000100 None of above 10100101 and 10111010

Quiz Score: 12 out of 12