

## GENETIC ALGORITHM BASED SOLUTION FOR FINAL EXAM SCHEDULING

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### ABSTRACT

The automatic generation of schedules has been in focus of researches for decades. Since small changes in the input have exponential impact on the tested state space, methods based on heuristics and artificial intelligence are the most successful.

In our paper we analysed the opportunities of automatic generation of the academic final exam scheduling, which is a special subtask of schedule generation. We examined the problem with the genetic algorithm approach. We created a point system, wherewith the goodness of the generated schedules is measurable and comparable. We analysed the effect on achievable results caused by the different changes on our algorithm. We evaluated the algorithms on a real test set of 100 students.

Our results show that for this complexity there is an acceptable solution, and with some improvements on our algorithm we will be able to give solutions, which are better and fairer, than the manually compiled schedules.

### INTRODUCTION

Final examination takes place at the end of the degree course in most universities. One current form of this is the oral examination, where at one time in one room only one student takes the exam in front of a board of examiners. All of these instructors have a special role, and only some particular people can fill in these places.

The scheduling of the final exams may be done manually, but the non-automated process can cause human errors, and it is hard to see through the whole scheduling, whether all requirements are realized and the timing is appropriate for everyone.

The complexity of this problem can be approached on two levels. The scheduling problem in itself is NP-complete [1], as there are too many possible combinations for scheduling people. In addition, many final-exam specific conditions must be satisfied during the scheduling and some of them contradict each other easily. For example, we may want to distribute the load among the examiners equally, but to perform certain tasks, such as filling the position of the president or examination from some subjects, only certain academics are suitable. Some teachers may have much more students than others, and it is also possible that not every necessary instructor is available at the same time.

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## **Table of Contents Final Exam And Solution For Genetic Algorithm**

1. Understanding the eBook Final Exam And Solution For Genetic Algorithm
  - The Rise of Digital Reading Final Exam And Solution For Genetic Algorithm
  - Advantages of eBooks Over Traditional Books
2. Identifying Final Exam And Solution For Genetic Algorithm
  - 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 Final Exam And Solution For Genetic Algorithm
  - User-Friendly Interface
4. Exploring eBook Recommendations from Final Exam And Solution For Genetic Algorithm
  - Personalized Recommendations
  - Final Exam And Solution For Genetic Algorithm User Reviews and Ratings
  - Final Exam And Solution For Genetic Algorithm and Bestseller Lists
5. Accessing Final Exam And Solution For Genetic Algorithm Free and Paid eBooks

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