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Chapter 5: Computer Systems Organization

Solutions to End-of-Chapter Exercises

1. The advantage of using a very large memory cell size is that the computer can store larger (in terms of absolute value) values in its memory cells. The disadvantage is that there would be fewer cells available, and with such big cells there would be a lot of wasted space when storing small numbers. The largest positive integer that could be stored in a system using sign/magnitude notation, with 64-bit cells is 2^{63} . If two such cells were used to store integers, the largest integer that could be stored by the system is 2^{127} .
2. a. 20 bits ($2^{20} = 1,048,576$, just over one million)
 b. 24 bits
 c. 27 bits
 d. 30 bits
3. A memory unit with 640 KB has 640×2^{10} memory cells, provided that the computer uses 8-bit cells. A memory unit with 512 MB would contain 512×2^{20} memory cells. A memory unit with 2 GB would contain 2×2^{30} cells.
4. Read-only memory can be used to store essential system instructions that users cannot overwrite. The information could originally be stored in the ROM by hardwiring the electronic circuitry.

Invitation To Computer Science 6th Manual

Jicheng Xie



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Invitation to Computer Science G. Michael Schneider, Judith L. Gersting, 2012-01-12 INVITATION TO COMPUTER SCIENCE 6E International Edition is a well respected text that provides an overview of the computer science field Using a flexible non language specific model INVITATION TO COMPUTER SCIENCE 6E International Edition offers a solid foundation for the first course in a Computer Science curriculum INVITATION TO COMPUTER SCIENCE 6E International Edition maintains its bestselling algorithm driven approach and includes expanded chapter exercises and practice problems as well as new boxes dedicated to mobile applications and current issues throughout Online language modules are available in C Java Python C and Ada allowing the option of incorporating a programming language to expand concepts from the text INVITATION TO COMPUTER SCIENCE 6E International Edition offers an optional CourseMate with study tools such as flashcards quizzing and games CourseMate Activities speak to and engage students while developing abstract thinking and problem solving skills Also available with INVITATION TO COMPUTER SCIENCE 6E International Edition an optional Lab Manual containing 20 laboratory projects that map directly to the main text The Lab Manual and accompanying software provide both visual and hands on activities allowing students to experience the fundamentals of computer science

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 Army, 1999 **American Book Publishing Record** , 1998 **Lab Manual for Schneider and Gersting's An Invitation
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- Chapter 5: Conclusion

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4. In chapter 3, the author will examine the practical applications of Invitation To Computer Science 6th Manual in daily life. The third chapter will showcase real-world examples of how Invitation To Computer Science 6th Manual can be effectively utilized in everyday scenarios.
5. In chapter 4, this book will scrutinize the relevance of Invitation To Computer Science 6th Manual in specific contexts. The fourth chapter will explore how Invitation To Computer Science 6th Manual is applied in specialized fields, such as education, business, and technology.
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