



CHAPTER 2

LECTURE OUTLINE

Computer Science Illuminated, Seventh Edition

Nell Dale, PhD; John Lewis, PhD

Binary Values and Number Systems

2.1 Numbers and Computing

2.2 Positional Notation

Binary, Octal, and Hexadecimal

Arithmetic in Other Bases

Power-of-2 Number Systems

Converting from Base 10 to Other Bases

Binary Values and Computers

Summary

Ethical Issues: The FISA Court

Key Terms

Exercises

Thought Questions