



CHAPTER 1

LECTURE OUTLINE

Computer Science Illuminated, Seventh Edition

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The Big Picture

1.1 Computing Systems

Layers of a Computing System

Abstraction

1.2 The History of Computing

A Brief History of Computing Hardware

A Brief History of Computing Software

Predictions

1.3 Computing as a Tool and a Discipline

The Big Ideas of Computing

Summary

Ethical Issues: Digital Divide

Key Terms

Exercises

Thought Questions