CS 241
Control Structures

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Lecture Topic #12

CS 241:
Functions

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Overview

- Reading
  - Nance textbook Pages 353-372
- Procedures
  - Functions Declaration & Invocation
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Functions

- A Function is a subprogram whose purpose is to return a single value
- Pascal Provides the following two types of functions:
  - Standard Functions
  - User-Defined Functions
- Standard Functions are functions that are provided as part of standard Pascal
  - Example: sqr, sqrt, abs, round, and trunc

Functions (Cont.)

- Potential example function candidates include:
  - Cube, exponential, factorial, and discriminant
- General Syntactical Form
  - Function heading

    FUNCTION <function name> (<parameter list>) : <return type>
- Example

  FUNCTION Discriminant (b, a, c :real) : real;

Functions (Cont.)

- See Example 7.6 on page 355 of Text
- See Example 7.8 on page 356 of Text
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