Data Types

Numeric Representations
See slides

Enum Types in C
See slides

Enum Types in Java
• Enumerated types are full classes
• Usage: when you need a fixed set of constants
• Syntax:
  public enum Day {
    SUNDAY, MONDAY, …, SATURDAY;
  }
  Or:
  public enum Day {
    SUNDAY(0), MONDAY(10), …;
    private int code;
    private Day(int code) { this.code = code; }
  }
• Usage:
  Day.SUNDAY
• Convention: all Caps
• Strongly typed so cannot assign arbitrary integer values
• May be used in switch cases
• Built-in methods:
  o .values() – returns an array of values
  o .name() – returns a string of the enum’s name