

# Data Types

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## 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:
  - `.values()` – returns an array of values
  - `.name()` – returns a string of the enum's name