

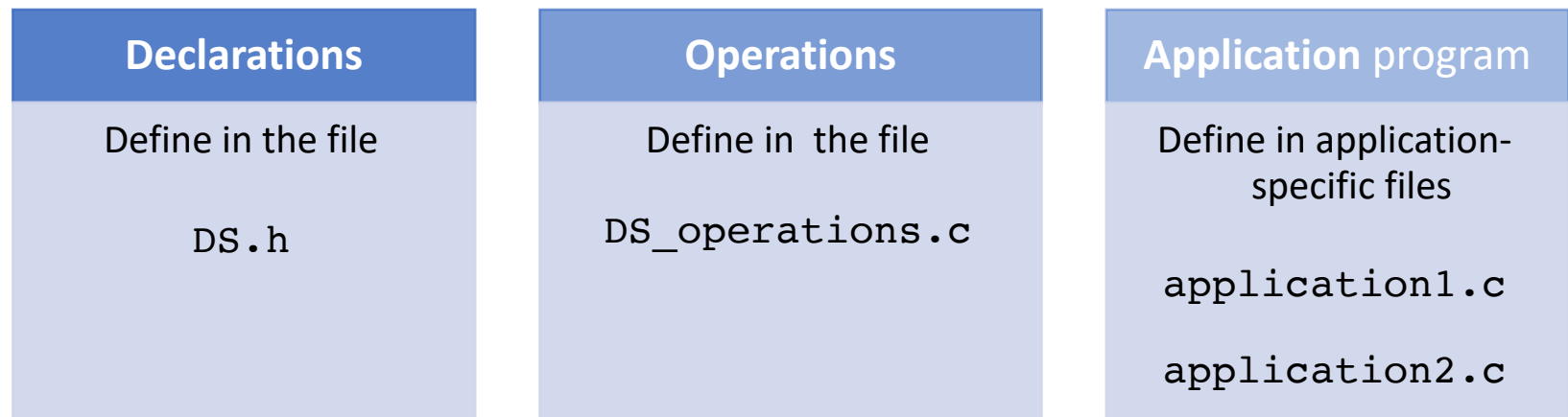
CSE 3010 – Data Structures & Algorithms

Lecture #10

What will be covered today

- Implementation of linked list in C
- Separation of code
- Evaluation of arithmetic expression

Separation of code



DS refers to any data structure that is implemented in the C language

How does a compiler evaluate expressions?

Examples of arithmetic expressions using infix form

$a + b$

$a + b * c$

$a + b / c * d$

$a * (b + c) * (d - c)$

Evaluate above expressions for

$a = 3, b = 2, c = 3$ and $d = 4$

How does a compiler evaluate expressions?

Examples of arithmetic expressions using postfix form

$$a + b = ab+$$

$$a + b * c = abc*+$$

$$a + b / c * d = ?$$

$$a * (b + c) * (d - c) = ?$$

Evaluate above expressions for

$$a = 3, b = 2, c = 3 \text{ and } d = 4$$