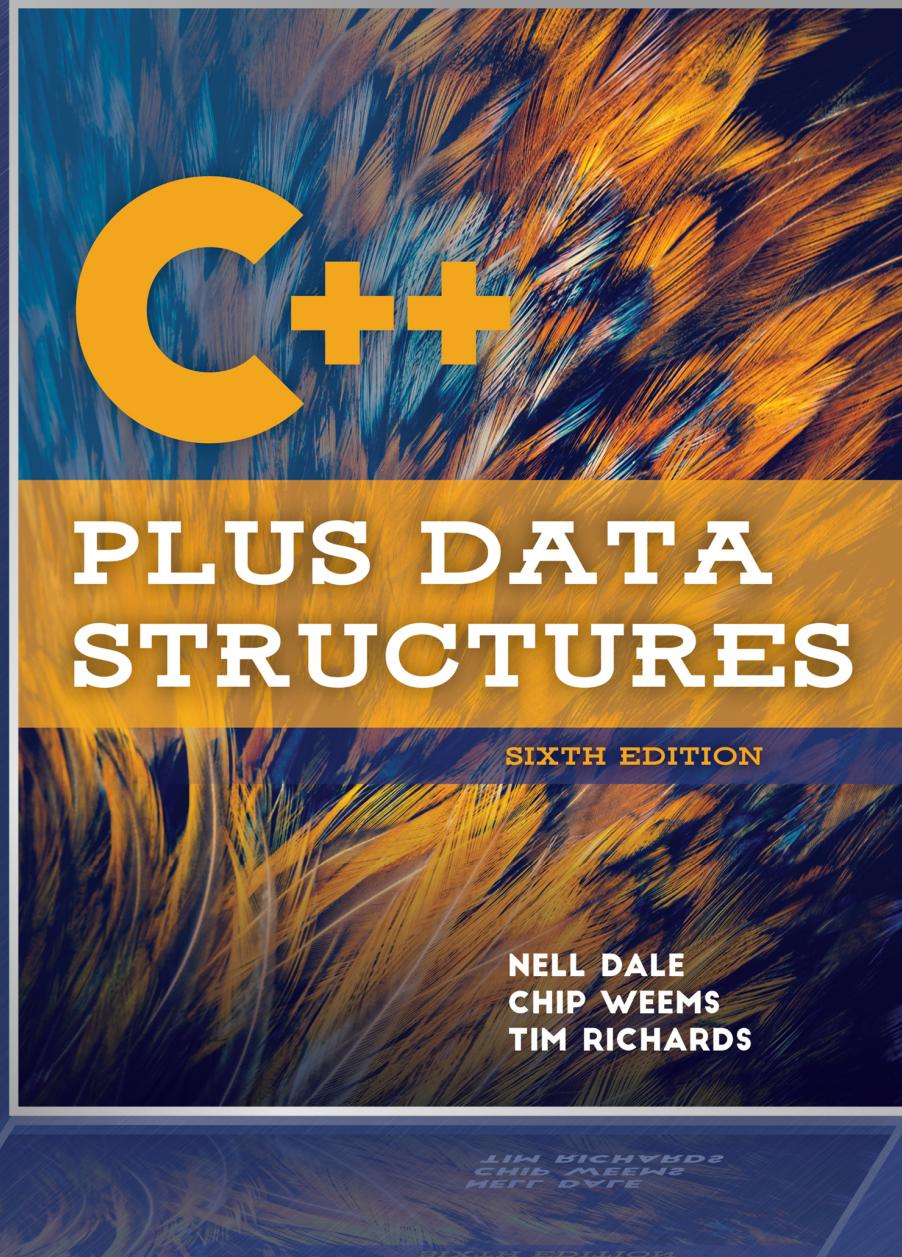


Postfix



Evaluating Postfix Expressions

- Postfix expressions: operands precede operator
- Tokens: atomics of expressions, either operator or operand
- Example:
 - $z = 25 + x^*(y - 5)$
 - Tokens: z, =, 25, +, x, *, (, y, -, 5,)

Converting from infix to Postfix

Token	Stack			Top	Output
	[0]	[1]	[2]		
a				-1	a
+	+			0	a
b	+			0	ab
*	+	*		1	ab
c	+	*		1	abc
eos				-1	abc *+

Converting from infix to Postfix

Token	[0]	Stack [1]	Top [2]	Output
a	*		-1	a
*	*		0	a
(*	(1	a
b	*	(1	ab
+	*	(+	2	ab
c	*	(+	2	abc
)	*		0	abc +
*	*		0	abc + *
d	*		0	abc + * d
eos	*		0	abc + * d *