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Launchpad Lecture - 3

Programming Fundamentals – 2

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Square Root?



Assignments?



Any other doubts?



TA Sessions



Break & Continue?



Scope of Variables



cin vs cin.get()



Lets do some more problems

Write a code to count characters till you read a \$



Time to try?

 Write program to calculate digits, whitespace and other characters terminated by \$



In Logical Expression any Non-Zero Value is True



Bitwise Operators

- Binary AND: &
- Binary OR: |
- Binary XOR: ^
- Binary One's Complement: ~
- Binary Left Shift: <<
- Binary Right Shift: >>



Precedence & Associativity

TABLE 2-1. PRECEDENCE AND ASSOCIATIVITY OF OPERATORS

OPERATORS				ASSOCIATIVITY
()	[]	_>	•	left to right
1 ~	++	+	- * & (type) sizeof	right to left
*	/	%		left to right
+	_			left to right
<<	>>			left to right
<	<=	>	>=	left to right
==	! =			left to right
&				left to right
^				left to right
1				left to right
&&				left to right
11				left to right
?:				right to left
= +:	= -=	= +=	/= %= &= ^=	right to left
,				left to right



for(initialization;condition;step) {}



Print following patterns

Given N, Print5555554444543335432254321



Print following patterns

Given N, Print following pattern (FOR N = 5)

ABCDEEDCBA

ABCDDCBA

ABCCBA

ABBA

AA



Easy\$

In the below code, change/add only one character and print '*' exactly 20 times.



Time for more Brain Teasers!



BT – 8: Daughters' Ages

Local Berkeley professors Dr. X and Dr. Y bump into each after a long time.

- X hey! how have you been?
- Y great! i got married and i have three daughters now
- X really? how old are they?
- y well, the product of their ages is 72, and the sum of their ages is the same as the number on that building over there
- X right, ok ... oh wait ... hmm, i still don't know
- Y oh sorry, the oldest one just started to play the
 - piano
- X wonderful! my oldest is the same age!

How old are the daughters?



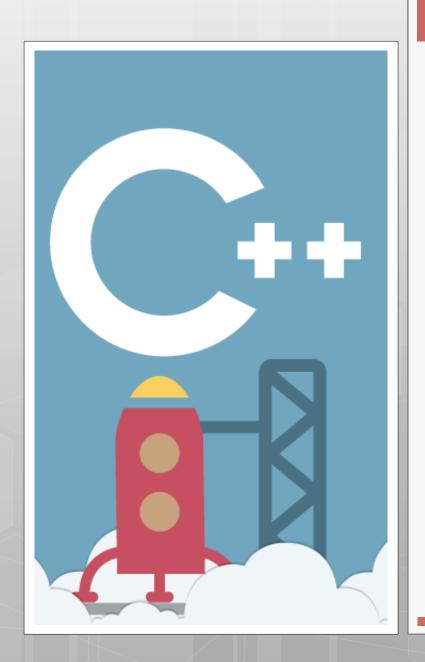
What is Next Class about?



Programming Fundamentals - 3

Arrays





Thank You!

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