### L4 Intermediate loops

$$\frac{12}{10}$$
 =

#### **Loops Continued**



Count the number of digits of a positive number.

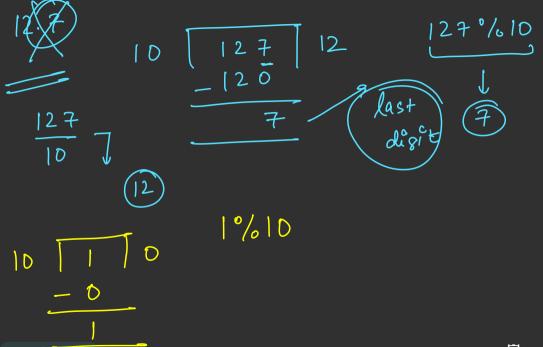
Remove last Digit 
$$\longrightarrow n = (n/10)$$

$$n = \frac{n}{\ln 10}$$
  $n = 1$ 

int cout = 0; last disit uemoved ulile (2 70)

A sum of digits of a positive number.

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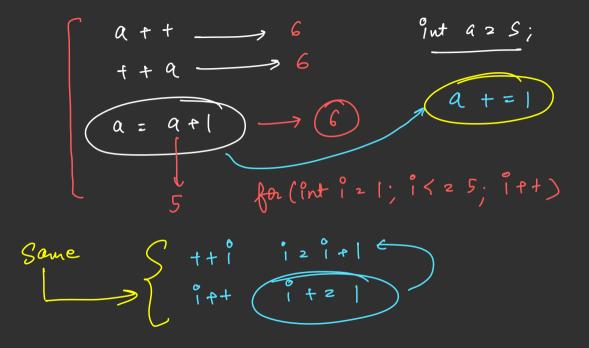
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## Increment Operator

Inc Bood me

int a 
$$z$$
  $(5)$   $(6)$   $(7)$ 
int b  $z$   $(6)$   $(7)$ 
int c  $z$   $(7)$ 
int c  $z$   $(7)$ 
int  $(7)$ 
int



Decement - Postfin - Refin a 25 L, Postfin int c z a -- ; int a 2 5; **U** LearnYard

Loops Continued

Sum of digits of all numbers from 1 to N.

N = 10

$$0 \rightarrow 0$$



Infinite book 1/sec int i = 5; mlite ( i > = 0) to (intiz); 1720; 1++) S. O. Eln (66 Hollo 1); 0 12 1 71; STOP the loop LearnYard

#### **While Loop Question**

Check whether a number is palindrome or not

while (x >0) int last Digit = 2 % 10; z nev 4 10 + lastDisit; 2/10; Palindrome Not Palindrone

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#### **Practice and Homework Questions**

- Check if a given number is a power of 2 or not
  - https://leetcode.com/problems/power-of-two/
- Check if a given number is prime or not?
- Print all prime numbers from 1 to N.
- Calculate product of all digits
- · Print all factors of a number
- Print first and last digit of a number

# Thank You!

Please practice more questions and examples as above !!

