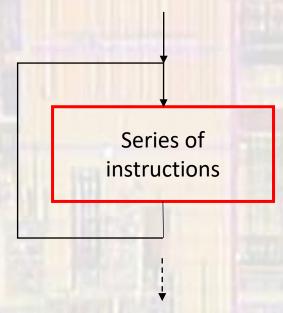
Last updated 10/29/20

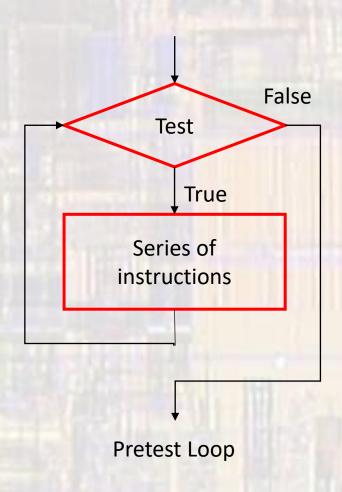
- These slides introduce the concept of repetition
- Upon completion: You should be able to interpret and develop solutions with repetition

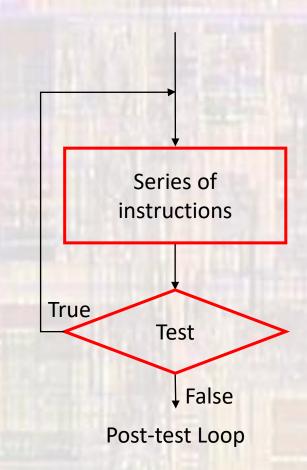
- Repeat a series of instructions loop
  - How many times
  - Under what conditions
  - Test to determine if we are done



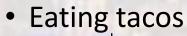
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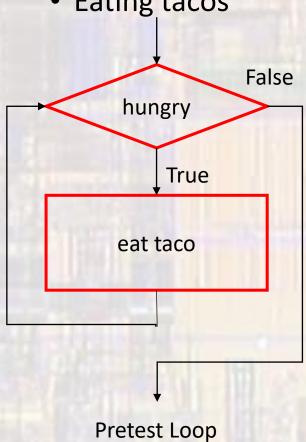
#### Loop Testing

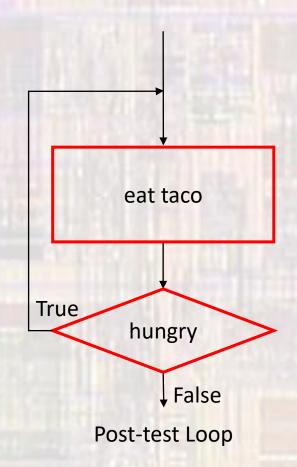




Loop Testing

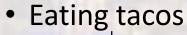


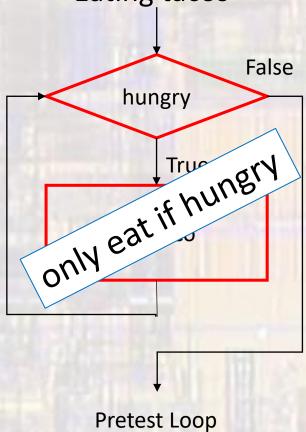


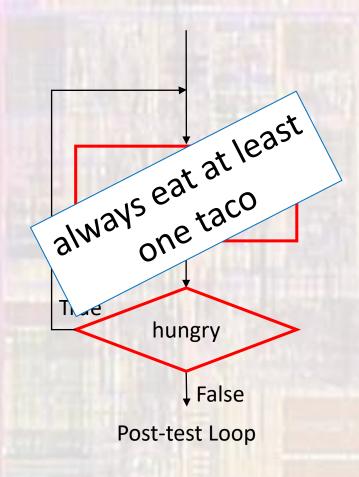


© tj

Loop Testing

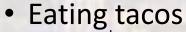


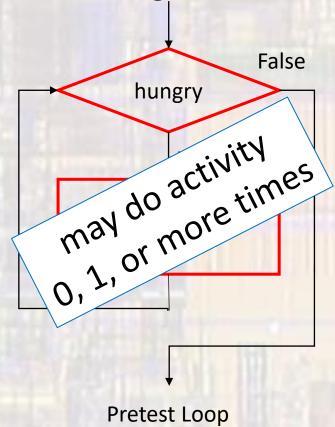


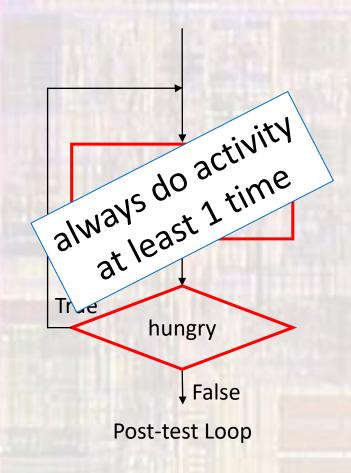


© tj

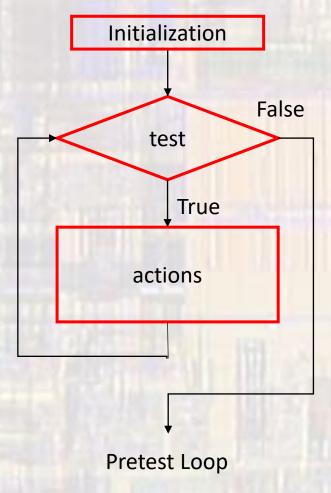
Loop Testing

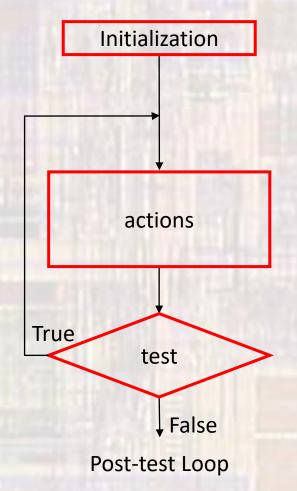




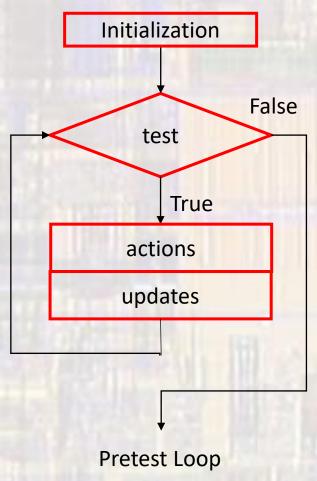


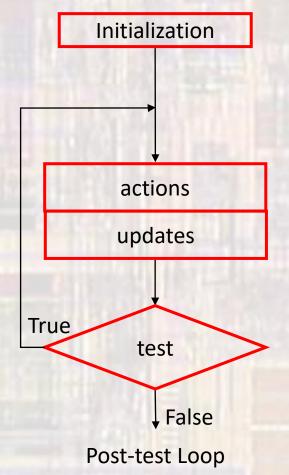
- Loop Initialization
  - Initialize any required loop parameters (variables)





- Loop Update
  - Update any required loop parameters (variables)





#### Loop Comparison

	Pretest	Post-test
Initialization	1	1
# of tests	n+1	n
Actions executed	n	n
Updates executed	n	n
Min iterations	0	1

- Loops in C
  - while
    - pretest loop
  - for
    - pretest loop
  - do ... while
    - post-test loop