

Class: CSc 335

Date: Feb 14, 2023 (Tuesday)

**NOTE: Quiz will be on Feb 28, 2023 and not Feb 23, 2023**

QUIZ Feedback

- If it's only one digit and you have to remove it, you cannot do that.
  - For example - Remove 2 from 2 will not return anything and need to make a precondition it.

Factorial Example Iteratively

- The use of stacks
- Base case - factorial of 0
- a pattern of calls expansion
  - $(\text{fact } 6) = (* (\text{fact } 5) 6) = (* (* (\text{fact } 4) 5) 6)$  and so on
- Not using stack and it will not exhaust the program
- Will not call the Garbage Collector and it will not terminate the program and you have to terminate yourself

Down counting one

- Create a function for down counting one from a number  $n$