

# Review for Midterm 3

# Chapter 6: Iteration

## while loop syntax

- While statements:
  - while ( expression ) action
  - Action is executed repeatedly while expression is true
  - Once expression is false, program execution moves on to next statement
  - Action can be a single statement or a block
  - If expression is initially false, action is never executed
- Note that do-while statements will not be on the exam

# Chapter 6: Iteration for loop syntax

- For statements:
  - for ( forinit; forexpression; forupdate ) action
  - forinit is executed once only (before the loop starts the first time)
  - Action is executed repeatedly while forexpression is true
  - After action is executed at the end of each loop, forupdate is executed
  - Once forexpression is false, program execution moves on to next statement
  - Action can be a single statement or a block
  - If expression is initially false, action is never executed