Java loops

handout for CS 302 by Will Benton (willb@cs)

while loops

usage:
Use a while loop to execute a statement or block multiple times, as long as a condition is true.

syntax:

while (cond)  
stmt

flow:

for loops

usage:
Use a for loop when there is a natural initialization step and update step in a loop: i.e. statements that get executed before the loop begins and after each iteration, respectively.

Common application: iterating over ranges, collections, or arrays.

syntax:

for (stmt_init; cond; stmt_update)  
stmt_body

flow:

do-while loops

usage:
Use a do-while loop to execute a statement or block at least once and then to execute it again multiple times, as long as a condition is true.

Common application: handling (potentially bogus) user input.

syntax:

do  
stmt  
while (cond)

flow: