RECITATION 4

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FOR LOOPS

- for(<initial cond>; <halt cond>; <increment cond>){<statements>}
- Repetition structure suited for a set number of iterations
 - FOR loops aren't *required* to have a set number of iterations, but other loop structures are easier to implement in those scenarios
- The initial condition must meet (eval to TRUE | nonzero) the halt condition in order for the loop to begin execution
- The loop exits when the halt condition evaluates to FALSE | 0

WHILE LOOPS

- while(<halt condition>){<statements>}
- Repetition structure best suited for loops which do not use a set number of iterations
 - Similarly, WHILE loops can be implemented to run for a set number of iterations, but FOR loops are easier to implement here
- The halt condition must evaluate to TRUE/nonzero in order for the loop to begin execution
- The loop exits when the halt condition evaluates to FALSE | 0

DO WHILE LOOPS

- do{<statements>}while(<halt cond>);
- Similar uses as a while loop
- Always runs at least once
- The loop exits when the halt condition evaluates to FALSE | 0

BREAK & CONTINUE

- BREAK will cause the loop to stop execution and jump to the first line of code below the loop block
- CONTINUE will cause the program to cease executing the statements in the current iteration of a loop, and jump to the halt condition