

Homework 7. *for-loops and while-loops are not inherently different:*

- *The “input” of a for-loop is a variable and a vector of values. Recreate the functionality of a for-loop using a while-loop.*
- *The “input” of a while-loop is the condition statement. Recreate the functionality of a while-loop using a for-loop. (Hint: when using the notation `for i=1:n` MATLAB does not actually create the vector `1:n`. Internally it simply iterates over the values in that vector by incrementing `i` until it reaches `n`. This means that if you write `for i=1:281474976710655` you’ll get a loop that, on its own, will “never” terminate. Explanation: 281474976710655 is the largest integer that MATLAB can represent internally. It is such a large number that even if every pass through the loop only takes 1 millisecond getting through the loop will take about 10000 years.)*

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18.S997 Introduction To MATLAB Programming
Fall 2011

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