

Princeton University
 COS 217: Introduction to Programming Systems
 “Flattened” C Programs

C Code	“Flattened” C Code
<pre>if (expression) { statement1; ... statementN; }</pre>	<pre>if (! expression) goto endif1; statement1; ... statementN; endif1:</pre>
<pre>if (expression) { statementT1; ... statementTN; } else { statementF1; ... statementFN; }</pre>	<pre>if (! expression) goto else1; statementT1; ... statementTN; goto endif1; else1: statementF1; ... statementFN; endif1:</pre>
<pre>while (expression) { statement1; ... statementN; }</pre>	<pre>loop1: if (! expression) goto endloop1; statement1; ... statementN; goto loop1; endloop1:</pre>
<pre>for (expression1; expression2; expression3) { statement1; ... statementN; }</pre>	<pre>expression1; loop1: if (! expression2) goto endloop1; statement1; ... statementN; expression3; goto loop1; endloop1:</pre>