

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>