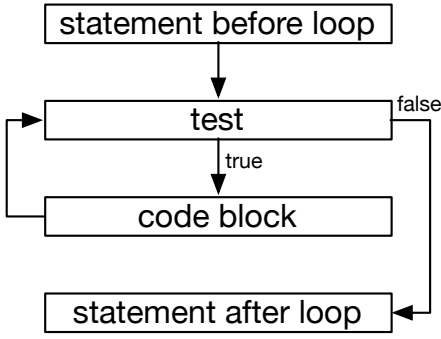
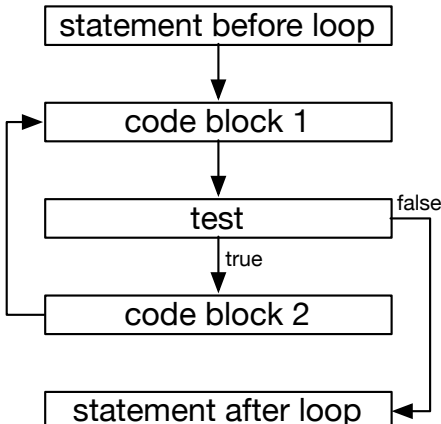
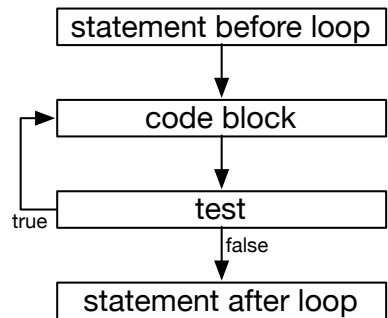


While Loops

Python	C++
<pre>while test: statement statement ...more statements...</pre>	<pre>while (test) { statement statement ...more statements... }</pre>
<p>Test at beginning of loop:</p>  <pre> graph TD A[statement before loop] --> B[test] B -- true --> C[code block] C --> B B -- false --> D[statement after loop] </pre>	<pre>statement before loop while (test) { code block } statement after loop</pre>
<p>Test in middle of loop:</p>  <pre> graph TD A[statement before loop] --> B[code block 1] B --> C[test] C -- true --> D[code block 2] D --> C C -- false --> E[statement after loop] </pre>	<pre>statement before loop while (true) { code block 1 if (!test) break; // reverse Logic code block 2 } statement after loop</pre>
<p>Test at end of loop:</p>  <pre> graph TD A[statement before loop] --> B[code block] B --> C[test] C -- true --> B C -- false --> D[statement after loop] </pre>	<pre>statement before loop while (true) { code block if (!test) break; // reverse Logic } statement after loop</pre>