

<code>while (condition) {</code>	<code>label1: code to compute condition</code>
<code> body</code>	<code>branch to label2 if false</code>
<code>}</code>	<code>code to perform body</code>
<code>next statement;</code>	<code>branch to label1</code>
	<code>label2: code for next statement</code>
(a)	(b)

Figure 9.4 (a) A *while* statement used in a high-level language, and (b) the equivalent assembly language code.