for (i=0; i<10; i++) {		set r4 to zero
body	label1:	compare r4 to 10
}		branch to label2 if >=
next statement;		code to perform body
		increment r4
		branch to label1
	label2:	code for next statement
(a)		(b)

Figure 9.3 (a) A *for* statement used in a high-level language, and (b) the equivalent assembly language code using register 4 as an index.