

foo(int a, int b) { int *p, *q; p = &a; ... *q = ...; ... = b; }	Stack allocations	q: edx a: esp + 20	p: esp + 8 b: esp + 24
	foo: 1 subl \$16, %esp // Allocate 16-byte stack frame 2 lea 20(%esp), 8(%esp) // Put &a(esp+20) into p(esp+8) 3 store ..., (%edx) // Store to MEM[q] 4 load 8(%esp), %ecx // Temp ecx ← p (same as &a) 5 load 4(%ecx) // Load “b” by using the fact that &b = &a + 4 = ecx + 4		
Source Code	Pseudo Assembly Code		