

Load Variable `abs_value` into R0

`LDR R0,R5,#0`

Load `abs_value`
into R0.

Is there an LC-3
instruction for that?

scope	identifier	type	from	offset	...
translate.c	the number	int32_t	R4	0	
find_abs	abs_value	int32_t	R5	0	...
rind_abs	num	int32_t	R5	4	...

Where is the Return Value Stored?

Where does the return value go?

Look in the stack frame!

R5 + 3	R5, R6 →	local var. (<code>abs_value</code>)	R5+0
		previous frame pointer	R5+1
		return address	R5+2
		return value	R5+3
		parameters (<code>num</code>)	R5+4
		main's stack frame	

Store R0 in Return Value Slot of Stack Frame

`LDR R0,R5,#0`
`STR R0,R5,#3`

Store R0 into
return value slot.

Is there an LC-3
instruction for that?

We Have Translated the Code for `find_abs`!

`LDR R0,R5,#0`
`STR R0,R5,#3`

The statement
is complete!

`return abs_value;`