	registers were being used by the "calling" code.
in general it show "save".	these registers that it wants to use (somewhere) & "restore" them to their original values afterwards.
• we will save & restore reg	isters on the system stack: Recall: a Stack.
-Data structure for saving l	4 restoring.
-Two operations - push an i	rem on to 0. Stack
	m off a stack.
-In ARM, register ris is res	erved to contain the Stack pointer -> it contains the address of the current them on the top of the stack. ris = SP
- All of memory looks like	
	Program Oprogram subdiset
	Eproprim michiet code
	t data grous downwordst
	(Seeach green) Generalizes annible adjects
On200000	Stack pointer
Basic Stack Operators	
	MOT SP, #0x200000
3 To push a Single (4 byte) word	Certo STOLES
cis decide stack pointer b	4 SUB SP. 44 D in one instruction str 11, Cap, 44] D simpler push 11.1
this store the value I say it i	is in ri) at that location str ri. Esp3
1 To pop the item on top of st	tack off. & put into r2
Us ldr r2, ESP3 // item	on top > 12
iti add sp. #4 // 'rem	dive" it from stack pop fra)
Let's use the stack to save	& restore registers in subroutines as above
_start: MOV SP. #0x2000	000 // Initialize stank
MOV 74.86	
MOV 75, 89	
BL MY-SUB	In LR-PC, PC 4 MY.Sis 8
11 MY-SuB will use 14 & 15	5 for something also
and it will call another	Subrouting
So I must some and	restore 14, 15 & link register (144)
MY_SUB: STR +4. [8P,#-4]	1 to bush ris
	1 11 *** 78 @ PMSH fRu.Rs.LR1
	! u LR
Mov 74, \$10	
Mov +8, \$30	
BL elsewhere	// Calling a subroutine uses LR
	12 pap top of stack into 10, to order marters! Corder of push & pop is the same as pushed & poped?
LDQ 18. CSP1,#4	
LDR 74, [SP],44	// pop.19
HOV PC, LR	# return from subrouting
ARM using the following convent	tion" for sending information to & from subroutines
	butine should be placed in registers. RO+R3
ti is ok to change RO+R3	
if need more than 4 parame	
3 it is not ok to change Ru →Ru	
If do, must save & restore the	

