Alex Zaharia

Task 3: Tracing Some C Programs with a Debugger

layout_1.c

Frame#1 - main()

Variable Name	Value	Address
first	357	0x7fffffffe51c
second	12	0x7fffffffe518

Frame#2 - function_one()

Variable Name	Value	Address
input	357	0x7fffffffe4ec

layout_2.c

Frame#2 - function_one()

Variable Name	Value	Address
input	357	0x7fffffffe4ec
function_one_local	357	0x7fffffffe4fc

Frame#2 - function_two()

Variable Name	Value	Address
input	0	0x7fffffffe4ec
function_one_local	0	0x7fffffffe4fc

layout_3.c

Frame#2 - function_one()

Variable Name	Value	Address
first	0	0x7fffffffe508

nums[0]	0	0x7fffffffe4f0		
nums[1]	1	0x7fffffffe4f4		
nums[2]	2	0x7fffffffe4f8		
nums[3]	3	0x7fffffffe4fc		
nums[4]	4	0x7fffffffe500		
mid	10	0x7fffffffe504		
i	5	0x7fffffffe50c		

layout_4.c

Frame#2 - function_one()

Variable Name	Value	Address	IN READ ONLY MEMORY	
first	0	0x7fffffffe50c		
s1[0]	3	0x7fffffffe4f0		
s1[1]	5	0x7fffffffe4f1		
s1[2]	7	0x7fffffffe4f2		
s2 or s2[0]	0x400600	0x7fffffffe500	3	
s2[1]	0x400601		5	
s2[2]	0x400602		7	
s2[3]	0x400603		\0	