

Memory Models for Question 3

Model A

Section	Address	Value	Label
Heap	0x240	6	
	0x244	37	
	0x248	“there\0”	
stack frame	0x454	0x240	b
for fun	0x458		
	0x45c	3	a
	0x460	5	
	0x464	“here\0”	
stack frame	0x480	0x240	away
for main	0x484		
	0x488	3	home
	0x48c	5	
	0x490	“here\0”	

Model C

Section	Address	Value	Label
Read Only	0x120	“here\0”	
	0x124	“there\0”	
Heap	0x240	6	
	0x244	37	
	0x248	0x124	
	0x24c		
stack frame	0x454	0x240	b
for fun	0x458		
	0x45c	3	a
	0x460	5	
	0x464	0x120	
	0x468		
stack frame	0x480	0x240	away
for main	0x484		
	0x488	3	home
	0x48c	5	
	0x490	0x120	
	0x494		

Model B

Section	Address	Value	Label
Read Only	0x120	“here\0”	
	0x124	“there\0”	
Heap	0x240	6	
	0x244	37	
	0x248	0x124	
	0x24c		
stack frame	0x454	0x240	b
for fun	0x458		
	0x45c	0x488	a
	0x460		
stack frame	0x480	0x240	away
for main	0x484		
	0x488	3	home
	0x48c	5	
	0x490	0x120	
	0x494		

Model D

Section	Address	Value	Label
Heap	0x240	6	
	0x244	37	
	0x248	“there\0”	
stack frame	0x454	0x240	b
for fun	0x458		
	0x45c	0x488	a
	0x460		
stack frame	0x480	0x240	away
for main	0x484		
	0x488	3	home
	0x48c	5	
	0x490	“here\0”	