

Practice Test 2

Stack

Address	Value (64 bit)	Comments
0x7ffffffe908	0x00007fff7a5a2b1	
0x7ffffffe900	0x0000555555554760	
0x7ffffffe8f8	0x00000001 0x00000002	Two 4-byte values
0x7ffffffe8f0	0x00007ffffffe9e0	
0x7ffffffe8e8	0x55554530 0x00000004	Two 4-byte values
0x7ffffffe8e0	0x00007ffffffe9e8	
0x7ffffffe8d8	0x00005555555546a3	
0x7ffffffe8d0	0x00007ffffffe900	← %rbp
0x7ffffffe8c8	0x555547ad 0x00000001	Two 4-byte values
0x7ffffffe8c0	0x00000001 0x00000000	Two 4-byte values
0x7ffffffe8b8	0xf7ad2fe0 0x00000002	Two 4-byte values
0x7ffffffe8b0	0x00007ffffffec98	← %rsp
0x7ffffffe8a8	0x000055555555470b	

Current Stack Frame

Address	Value (64 bit)	Comments
0x7fffffff908	0x00007fff7a5a2b1	
0x7fffffff900	0x0000555555554760	
0x7fffffff8f8	0x00000001 0x00000002	Two 4-byte values
0x7fffffff8f0	0x00007fffffff9e0	
0x7fffffff8e8	0x55554530 0x00000004	Two 4-byte values
0x7fffffff8e0	0x00007fffffff9e8	
0x7fffffff8d8	0x00005555555546a3	
0x7fffffff8d0	0x00007fffffff900	← %rbp
0x7fffffff8c8	0x555547ad 0x00000001	Two 4-byte values
0x7fffffff8c0	0x00000001 0x00000000	Two 4-byte values
0x7fffffff8b8	0xf7ad2fe0 0x00000002	Two 4-byte values
0x7fffffff8b0	0x00007fffffec98	← %rsp
0x7fffffff8a8	0x000055555555470b	

Caller's %rbp

Address	Value (64 bit)	Comment
0x7fffffff908	0x00007fff7a5a2b1	
0x7fffffff900	0x0000555555554760	
0x7fffffff8f8	0x00000001 0x00000002	Two 4-byte values
0x7fffffff8f0	0x00007fffffff9e0	
0x7fffffff8e8	0x55554530 0x00000004	Two 4-byte values
0x7fffffff8e0	0x00007fffffff9e8	
0x7fffffff8d8	0x00005555555546a3	
0x7fffffff8d0	0x00007fffffff900	← %rbp
0x7fffffff8c8	0x555547ad 0x00000001	Two 4-byte values
0x7fffffff8c0	0x00000001 0x00000000	Two 4-byte values
0x7fffffff8b8	0xf7ad2fe0 0x00000002	Two 4-byte values
0x7fffffff8b0	0x00007fffffec98	← %rsp
0x7fffffff8a8	0x000055555555470b	

Caller's frame

Address	Value (64 bit)	Comment
0x7fffffe908	0x00007fff7a5a2b1	
0x7fffffe900	0x0000555555554760	
0x7fffffe8f8	0x00000001 0x00000002	Two 4-byte values
0x7fffffe8f0	0x00007fffffe9e0	
0x7fffffe8e8	0x55554530 0x00000004	Two 4-byte values
0x7fffffe8e0	0x00007fffffe9e8	
0x7fffffe8d8	0x00005555555546a3	
0x7fffffe8d0	0x00007fffffe900	← %rbp
0x7fffffe8c8	0x555547ad 0x00000001	Two 4-byte values
0x7fffffe8c0	0x00000001 0x00000000	Two 4-byte values
0x7fffffe8b8	0xf7ad2fe0 0x00000002	Two 4-byte values
0x7fffffe8b0	0x00007fffffec98	← %rsp
0x7fffffe8a8	0x000055555555470b	

Return Address
Offset = 6a3

Address	Value (64 bit)	Comment
0x7fffffff908	0x00007fff7a5a2b1	
0x7fffffff900	0x0000555555554760	
0x7fffffff8f8	0x00000001 0x00000002	Two 4-byte values
0x7fffffff8f0	0x00007fffffff9e0	
0x7fffffff8e8	0x55554530 0x00000004	Two 4-byte values
0x7fffffff8e0	0x00007fffffff9e8	
0x7fffffff8d8	0x00005555555546a3	
0x7fffffff8d0	0x00007fffffff900	← %rbp
0x7fffffff8c8	0x555547ad 0x00000001	Two 4-byte values
0x7fffffff8c0	0x00000001 0x00000000	Two 4-byte values
0x7fffffff8b8	0xf7ad2fe0 0x00000002	Two 4-byte values
0x7fffffff8b0	0x00007fffffec98	← %rsp
0x7fffffff8a8	0x000055555555470b	

main's frame

func1's frame

Address	Value (64 bit)	Comment
0x7fffffe908	0x00007fff7a5a2b1	
0x7fffffe900	0x0000555555554760	
0x7fffffe8f8	0x00000001 0x00000002	Two 4-byte values
0x7fffffe8f0	0x00007fffffe9e0	
0x7fffffe8e8	0x55554530 0x00000004	Two 4-byte values
0x7fffffe8e0	0x00007fffffe9e8	
0x7fffffe8d8	0x00005555555546a3	
0x7fffffe8d0	0x00007fffffe900	← %rbp
0x7fffffe8c8	0x555547ad 0x00000001	Two 4-byte values
0x7fffffe8c0	0x00000001 0x00000000	Two 4-byte values
0x7fffffe8b8	0xf7ad2fe0 0x00000002	Two 4-byte values
0x7fffffe8b0	0x00007fffffec98	← %rsp
0x7fffffe8a8	0x000055555555470b	

main's %rbp-4

Address	Value (64 bit)	Comment
0x7fffffe908	0x00007fff7a5a2b1	
0x7fffffe900	0x0000555555554760	
0x7fffffe8f8	0x00000001 0x00000002	Two 4-byte values
0x7fffffe8f0	0x00007fffffe9e0	
0x7fffffe8e8	0x55554530 0x00000000	Two 4-byte values
0x7fffffe8e0	0x00007fffffe9e8	
0x7fffffe8d8	0x00005555555546a2	
0x7fffffe8d0	0x00007fffffe900	← %rbp
0x7fffffe8c8	0x555547ad 0x00000001	Two 4-byte values
0x7fffffe8c0	0x00000001 0x00000000	Two 4-byte values
0x7fffffe8b8	0xf7ad2fe0 0x00000002	Two 4-byte values
0x7fffffe8b0	0x00007fffffec98	← %rsp
0x7fffffe8a8	0x000055555555470b	

func1's %rbp-4

Address	Value (64 bit)	Comment
0x7fffffff908	0x00007fff7a5a2b1	
0x7fffffff900	0x0000555555554760	
0x7fffffff8f8	0x00000001 0x00000002	Two 4-byte values
0x7fffffff8f0	0x00007fffffff9e0	
0x7fffffff8e8	0x55554530 0x00000004	Two 4-byte values
0x7fffffff8e0	0x00007fffffff9e8	
0x7fffffff8d8	0x00005555555546a3	
0x7fffffff8d0	0x00007fffffff900	← %rbp
0x7fffffff8c8	0x555547ad 0x00000001	Two 4-byte values
0x7fffffff8c0	0x00000001 0x00000000	Two 4-byte values
0x7fffffff8b8	0xf7ad2fe0 0x00000002	Two 4-byte values
0x7fffffff8b0	0x00007fffffec98	← %rsp
0x7fffffff8a8	0x000055555555470b	

main's caller's %rbp

Address	Value (64 bit)	Comment
0x7fffffe908	0x00007fff7a5a2b1	
0x7fffffe900	0x0000555555554760	
0x7fffffe8f8	0x00000001 0x00000000	Two 4-byte values
0x7fffffe8f0	0x00007fffffe9e0	
0x7fffffe8e8	0x55554530 0x00000004	Two 4-byte values
0x7fffffe8e0	0x00007fffffe9e8	
0x7fffffe8d8	0x00005555555546a3	
0x7fffffe8d0	0x00007fffffe900	← %rbp
0x7fffffe8c8	0x555547ad 0x00000001	Two 4-byte values
0x7fffffe8c0	0x00000001 0x00000000	Two 4-byte values
0x7fffffe8b8	0xf7ad2fe0 0x00000002	Two 4-byte values
0x7fffffe8b0	0x00007fffffec98	← %rsp
0x7fffffe8a8	0x000055555555470b	

main's %rbp-0x20