SUB:
push ebp
mov ebp, esp
mov eax, [ebp+8]
mov esp, ebp
pop ebp
ret

EAX = 0x000000000ECX = 0x00000001

ESP = 0xbffff77CEBP = 0xbffff788

EIP = MAIN

ADDRESS	VALUE
0xbffff770	
0xbffff774	
0xbffff778	
0xbffff77C	0x12345678

SUB:
push ebp
mov ebp, esp
mov eax, [ebp+8]
mov esp, ebp
pop ebp
ret

EAX = 0x00000000
ECX = 0x00000001

ESP = 0xbffff778
EBP = 0xbffff788

EIP = addr of push ecx

Stack

ADDRESS VALUE

0xbffff770
0xbffff774
0xbffff778
0x000000001

0x12345678

0xbffff77C

SUB:
push ebp
mov ebp, esp
mov eax, [ebp+8]
mov esp, ebp
pop ebp
ret

EAX = 0x000000000ECX = 0x00000001

ESP = 0xbffff774EBP = 0xbffff788

EIP = addr of call SUB

ADDRESS	VALUE
0xbffff770	
0xbffff774	addr of mov edx, eax
0xbffff778	0x00000001
0xbffff77C	0x12345678

SUB:

;\range\ush ebp mov ebp, esp

mov eax, [ebp+8] mov esp, ebp pop ebp ret EAX = 0x000000000ECX = 0x00000001

ESP = 0xbffff770EBP = 0xbffff788

EIP = addr of push ebp

ADDRESS	VALUI
0xbffff770	0xbffff788
0xbffff774	addr of mov edx, eax
0xbffff778	0x00000001
0xbffff77C	0x12345678

SUB:
push ebp
nov ebp, esp
mov eax, [ebp+8]
mov esp, ebp
pop ebp
ret

EAX = 0x000000000ECX = 0x00000001

ESP = 0xbffff770EBP = 0xbffff770

EIP = addr of mov ebp, esp

ADDRESS	VALUE
0xbffff770	0xbffff788
0xbffff774	addr of mov edx, eax
0xbffff778	0x00000001
0xbffff77C	0x12345678

SUB:
push ebp
mov ebp, esp
nov eax, [ebp+8]
mov esp, ebp
pop ebp
ret

EAX = 0x00000001ECX = 0x00000001

ESP = 0xbffff770EBP = 0xbffff770

EIP = addr of mov eax, [ebp+8]

ADDRESS	VALUE
0xbffff770	0xbffff788
0xbffff774	addr of mov edx, eax
0xbffff778	0x00000001
0xbffff77C	0x12345678

SUB:
push ebp
mov ebp, esp
mov eax, [ebp+8]
mov esp, ebp
pop ebp
ret

EAX = 0x00000001ECX = 0x00000001

ESP = 0xbffff770EBP = 0xbffff770

EIP = addr of mov esp, ebp

ADDRESS	VALUE
0xbffff770	0xbffff788
0xbffff774	addr of mov edx, eax
0xbffff778	0x00000001
0xbffff77C	0x12345678

SUB:
push ebp
mov ebp, esp
mov eax, [ebp+8]
mov esp, ebp
pop ebp
ret

EAX = 0x00000001 ECX = 0x00000001 ESP = 0xbffff774 EBP = 0xbffff788

EIP = addr of pop ebp

ADDRESS	VALUE
0xbffff770	0xbffff788
0xbffff774	addr of mov edx, eax
0xbffff778	0x00000001
0xbffff77C	0x12345678

SUB:
push ebp
mov ebp, esp
mov eax, [ebp+8]
mov esp, ebp
pop ebp
ret

EAX = 0x00000001ECX = 0x00000001

ESP = 0xbffff778EBP = 0xbffff788

EIP = addr of ret

\mathbf{A}	DDRESS	VALUE
	0xbffff770	0xbffff788
\	0xbffff774	addr of mov edx, eax
	0xbffff778	0x00000001
	0xbffff77C	0x12345678

SUB:
push ebp
mov ebp, esp
mov eax, [ebp+8]
mov esp, ebp
pop ebp
ret

EAX = 0x00000001ECX = 0x00000001

ESP = 0xbffff778EBP = 0xbffff788

EIP = addr of mov edx, eax

ADDRESS	VALUE
0xbffff770	0xbffff788
0xbffff774	addr of mov edx, eax
0xbffff778	0x00000001
0xbffff77C	0x12345678