Name:	Login: EXERCISE
In the current execution frame 1. What line of C code is about to be executed? line in function 2. What is the value in the base pointer? 0x7fffffffd 3. What is the value in the stack pointer? 0x7fffffffd 4. What is the return address? 0x400 == line in function 5. What is address of the return address? 0x7fffffffd Upon return to the calling execution frame 6. What line of C code will execute next? line 7. What will the value in the base pointer be? 0x7fffffffd 8. What will the value in the stack pointer be? 0x7fffffffd In the memory dump below	### Struction-level execution 0x000000000000000000684 <+11>: mov
9. Label all 8 local variables, 2 parameters, 2 return addresses, and 2 saved	Dump of assembler code for function greet_visitor:
base pointers. (Assignments/initializations and function calls will help.) (gdb) info registers [] rbp	boa.c: 3
(gdb) x/80bx \$rsp	0x00000000000400 <u>60a</u> <+20>: callq 0x400450 <puts@plt></puts@plt>
0x7fffffffd <u>de0</u> : 0x41 0x6c 0x65 0x78 0x61 0x6e 0x64 0x65	7 gets(name); // VERY, VERY, VERY BAD!!! 0x000000000040060f <+25>: lea -0x20(%rbp),%rax 0x00000000000400613 <+29>: mov %rax,%rdi 0x0000000000400616 <+32>: callq 0x400480 <gets@plt></gets@plt>
0x7fffffffdde8: 0x72 0x00 0x40 0x00 0x00 0x00 0x00 0x00 0x00 0x7ffffffffddf0: 0x28 0xdf 0xff 0xff 0x7f 0x00 0x00	8
0x7fffffffd <u>df8</u> : 0xaa 0xbb 0xbb 0xaa 0xaa 0xaa 0xaa	9 int gt_btm = 0xAABBBBAA;
0x7fffffffd <u>e00</u> : 0x30 0xde 0xff 0xff 0xff 0x7f 0x00 0x00	0x0000000000400 <u>631</u> <+59>: movl \$0xaabbbbaa,-0x8(%rbp) 10
0x7fffffffd <u>e08</u> : 0x99 0x06 0x40 0x00 0x00 0x00 0x00 0x00	(gdb) disas /s scare_visitor
0x7fffffffd <u>e10</u> : 0x18 0xdf 0xff 0xff 0xff 0x7f 0x00 0x00	<pre>Dump of assembler code for function scare_visitor: boa.c: 12 void scare_visitor() {</pre>
0x7fffffffd <u>e18</u> : 0x90 0x04 0x40 0x00 0x01 0x00 0x00 0x00	0x000000000400 <u>63b</u> <+0>: push %rbp 0x000000000400 <u>63c</u> <+1>: mov %rsp,%rbp 0x000000000400 <u>63f</u> <+4>: sub \$0x20,%rsp
0x7fffffffd <u>e20</u> : 0x10 0xdf 0xff 0xff 0xff 0x7f 0x00 0x00	13
0x7fffffffde28: 0x00 0x00 0x00 0x0a 0xaa 0xee 0xee 0xaa 0x7ffffffffde30: 0x00	14
0x7fffffffde38: 0x1d 0xed 0x41 0x2f 0x38 0x00 0x00 0x00 (gdb) disas /s main 0x00 0x00 <t< td=""><td>15 printf(message); 0x0000000000040065e <+35>: lea -0x20(%rbp),%rax 0x00000000000400662 <+39>: mov %rax,%rdi 0x00000000000400665 <+42>: mov \$0x0,%eax 0x000000000040066a <+47>: callq 0x400460 <printf@plt></printf@plt></td></t<>	15 printf(message); 0x0000000000040065e <+35>: lea -0x20(%rbp),%rax 0x00000000000400662 <+39>: mov %rax,%rdi 0x00000000000400665 <+42>: mov \$0x0,%eax 0x000000000040066a <+47>: callq 0x400460 <printf@plt></printf@plt>
Dump of assembler code for function main: boa.c:	16 int sv_btm = 0xAADDDDAA;
<pre>19 int main(int argc, char *argv[]) { 0x0000000000400679 <+0>: push %rbp</pre>	0x0000000000400 <u>66f</u> <+52>: movl \$0xaaddddaa,-0x8(%rbp) 17 } 0x000000000400676 <+59>: nop

0x00000000000400<u>67a</u> <+1>: 0x00000000000400<u>67d</u> <+4>:

0x0000000000400<u>681</u> <+8>:

%rsp,%rbp

\$0x20,%rsp

%edi,-0x14(%rbp)

mov

sub

mov

} 0x0000000000400<u>676</u> <+59>: 0x00000000000400<u>677</u> <+60>:

nop

retq

leaveq