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Question1:

A stack frame contains memory on a stack that has specific information for a subroutine, the stack frame holds variables for the subroutine like the return address, arguments passed, etc.

Question2:

A calling convention is a schematic for the order of allocating and passing parameters, a calling convention also determines how arguments are added and removed from the stack.

Question3:

The book uses “push ebp” because they save the value of ebp and then the book uses mov ebp,esp to point to the top of the new stack frame.

Question 4:

Push rbp

Mov rbp,rsp

Question 5:

Microsoft X64 has a shadow space on stack creation and System V AMD64 ABI does not have that. System V AMD64 ABI can receive more parameters for registers.

Question 6:

The first four arguments are pushed into different registers, a-RCX,b-RDX,c-r8, d-r9. E and f will be put on the stack from right to left.

Question 7:

Using the stdcall convention would reverse the order, instead of pushing it onto the stack from right to left, so in this order, f-e-d-c-b-a.