

- [CPSC 275: Introduction to Computer Systems](#)

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Fall 2025

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# Solution to Homework 23

A.

	08 04 86 43	Return address
%ebp →	bf ff fc 94	Saved %ebp
	00 00 00 03	Saved %edi
	00 00 00 02	Saved %esi
	00 00 00 01	Saved %ebx
		buf [4-7]
		buf [0-3]

B.

	08 04 86 00	Return address
%ebp →	33 32 31 30	Saved %ebp
	39 38 37 36	Saved %edi
	35 34 33 32	Saved %esi
	31 30 39 38	Saved %ebx
	37 36 35 34	buf [4-7]
	33 32 31 30	buf [0-3]

C. The program is attempting to return to address 0x08048600. The low-order byte was overwritten by the terminating null character.

D.

Register	Value
%ebp	33323130
%edi	39383736
%esi	35343332
%ebx	31303938

- **Welcome: Sean**

- [LogOut](#)

