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ECE357 Operating Systems

1 a.

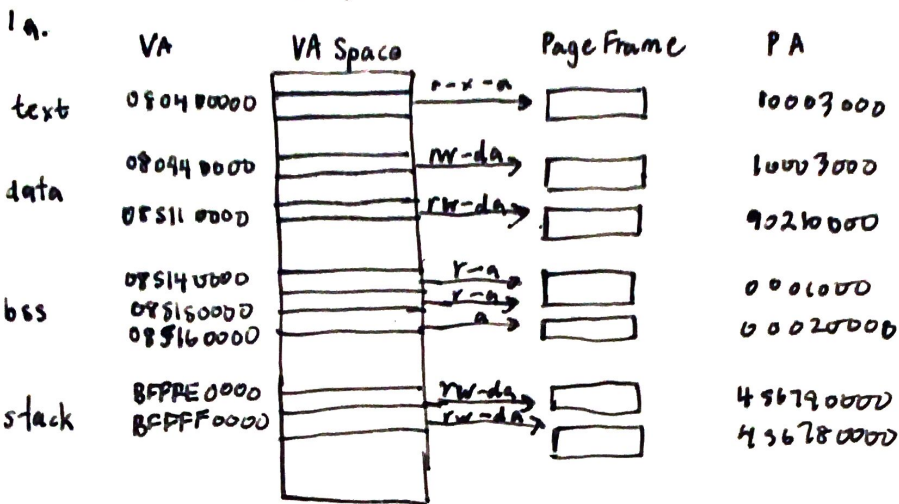| VA	VA Space		Page Frame	PA
text	0804 0000	r-x-a →	☐	10003000
data	08044 0000	rw-da →	☐	1000 3000
	08511 0000	rw-da →	☐	90210000
bss	08514 0000	r-a →	☐	00010000
	08515 0000	r-a →	☐	
	08516 0000	a →	☐	00020000
stack	BFFFE 0000	rw-da →	☐	456790000
	BFFFF 0000	rw-da →	☐	436280000

b. RSS is the # of page frames mapped to this process, 7.

c. The minimum size of bss is 2 pages. Two addresses point to the same page frame, the other to its own.

d. Yes, the PFRA has stolen the page frame with virtual address 08 51600 from us. The motivation for the PFRA's theft is the present bit being 0.