

Program Order (ROB)

STORE SEQUENCE NUMBERS (SseqN)

					LD _B	8ST _B	LD _B	7ST _A
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Execution Order (Issue from LQ+SQ)

					8ST _B	7ST _A	7LD _B	7LD _B
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LOADS INHERIT THE SseqN OF THE OLDEST STORE THEY BYPASSED

SSBF

Program Order (Committing)

		7LD _B	8ST _B	7LD _B	7ST _A
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A	7
B	2
C	4
D	1

SSBF

Program Order (Committing)

			7LD _B	8ST _B	7LD _B
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A	7
B	2
C	4
D	1

7 > 2

NO MEMORY VIOLATION

SSBF

Program Order (Committing)

				7LD _B	8ST _B
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A	7
B	8
C	4
D	1

SSBF

Program Order (Committing)

					7LD _B
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A	7
B	8
C	4
D	1

7 > 8

POSSIBLE MEMORY VIOLATION

