

① Loop: bgt \$a1, \$a2, Exit
 lw \$t0, \$a1(\$a0)
 lw \$t1, \$a2(\$a0)
 sw \$t1, \$a1(\$a0)
 sw \$t0, \$a2(\$a0)
 addi \$a1, \$a1, 1
 addi \$a2, \$a2, -1
 j loop

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Exit:

② slt \$t2, \$0, \$t0

0000 00 | 01010 | 00000 | 01000 | 00000 | 101010 | r-format

bne \$t2, \$0, ELSE

000101 | 01010 | 00000 | 0000 0000 0000 0001 | i-format

j Done

0000 10 | 0000 0000 0000 0001 1111 0101 00 | j-format

addi \$t2, \$t2, 2

0010 00 | 01010 | 01010 | 0000 0000 0000 0010 | i-format