COMPSYS 304 Assignment 1
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Q2.

```
# load index range
addi $t3, $0, 0
addi $t0, $0, 1000

L1:
# increment index by 4 each time
sll $t4, $t3, 2
# get index value of array A
add $t5, $t4, $11
# get index value of array B
add $t6, $t4, $12

# store the fourth byte of A in the first byte of B
# load i-th element of array A into temporary register
lb $t8, 3($t5)
# store the corresponding element of A into B
sb $t8, 0($t6)

# store the third byte of A in the second byte of B
lb $t8, 2($t5)
sb $t8, 1($6)

# store the second byte of A in the third byte of B
lb $t8, 1($t5)
sb $t8, 2($t6)

# store the first byte of A to the fourth byte of B
lb $t8, 0($t5)
sb $t8, 3($t6)

#increment index range by 1
addi $t3, t3, 1

#decrement loop counter
addi $t0, $t0, -1
#check loop counter
bne $t0, $0, L1
```