Question 1: (15 points)

Assume that `x`, `y`, `i`, `j` are 32-bit integers, and that their values are stored in `$s0`, `$s1`, `$s2` and `$s3`, respectively. Assume that `A` and `B` are vectors of integers, and that the base address of `A` is stored in `$s4` and the base address of `B` is stored in `$s5`.

In the table below, indicate how many `load word (lw)` and how many `store word (sw)` instructions are necessary to execute each of the C statements.

C statement	load words (lw)	store words (sw)
`x = y * y`		
`A[i] = x + y`		
`x = A[i] + A[j]`		
`B[i] = A[j]`		
`x = y + A[B[j]]`		
`A[B[j]] = x + y`		