**CS 51, Arrays with Variables – Practice Sheet**

Assume x goes to $s0, y goes to $s1, and the address of the first element of the array A goes to $s2.

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| C Instruction | MIPS Instructions |
| A[x] = y |  |
| C Instruction | MIPS Instructions |
| X = A[y + 1] |  |

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| C Instruction | MIPS Instructions |
| A[x - 1] = y |  |
| C Instruction | MIPS Instructions |
| X = A[y - 2] |  |

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| C Instruction | MIPS Instructions |
| A[x + 2] = y |  |
| C Instruction | MIPS Instructions |
| X = A[y + 5] |  |

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| C Instruction | MIPS Instructions |
| A[x - 3] = y |  |
| C Instruction | MIPS Instructions |
| X = A[y - 4] |  |