

NAME: \_\_\_\_\_

1. Suppose you have an integer array A with N elements (A is global). The following function select\_sort sorts A using the selection sort algorithm. Convert the following to Pseudo-C code with (un)conditional gotos in place of the for and if statements.

```
void select_sort (int N){
    int i, j, min, max, tmp;
    for (i = 0; i <= N/2; i++) {
        min = i;
        max = i;
        for (j = i+1; j < N-i; j++) {
            if (A[j] > A[max]) {
                max = j;
                continue;
            }
            if (A[j] < A[min]) {
                min = j;
            }
        }

        tmp = A[i];
        A[i] = A[min];
        A[min] = tmp;
        tmp = A[N-1 - i];
        A[N-1 - i] = A[max];
        A[max] = tmp;
    }
}
```

2. Convert the Pseudo-C code from part 1 into MIPS.