Nicholas Cali

I pledge my honor that I have abided by the Stevens Honors System.

_start:

This section of my code is similar to the main function in our c++, python, and normal c source files.

- Here in this section, we add a register for the base address of the array a. We also declare the size of the array here and branch and link to sort1 and the printarray procedure/labels. Then we syscall to end the program.

Sort1:

This section of my code performs the outer loop of the selection sort algorithm.

- In here we set up the stack pointer to hold x30 so it doesn't get overwritten when printf is called later on.
- An in-depth line-by-line description can be found in the assembly file.

Sort2:

This section of the code performs the inner loop of the algorithm.

- In here we set up the stack pointer to hold x30 so it doesn't get overwritten when printf is called later on.
- An in-depth line-by-line description can be found in the assembly file.
- This section also branches to L1

L1:

This is the if statement under the second for loop. This section compares the two array indexes at j and min index. This code brank and links to swap.

Swap:

This section of the code swaps the two values at the indexes of the array.

Printarray

This just does what is says. It prints the sorted array out to the terminal.