CS 382: Programming Project 1
Due: October 31, 11:59 pm

Collaboration Policy. Assignments will be done individually: each student must hand in their own answers. It is acceptable for students to collaborate in understanding the material but not in solving the problems or programming. Use of the Internet is allowed, but should not include searching for existing solutions.

Under absolutely no circumstances code can be exchanged between students. If some code was shown in class, it can be used, but it must be obtained from Canvas, the instructor or the TA.

Assignments from previous offerings of the course must not be re-used. Violations will be penalized appropriately.

Late Policy. No late submissions will be allowed without consent from the instructor. If urgent or unusual circumstances prohibit you from submitting a homework assignment in time, please e-mail me.

Deliverable. Submit on Canvas a **zip** file containing:

1. a **pdf** file describing what you did including fragments of the code as needed,
2. a file with the source code named selection.s (not executables, object files etc.).

Requirements

1. Create an ARMv8 program that implements the **selection sort** algorithm, as presented in CS 284.
2. Your code **must** include procedure calls. The swap function is one possible candidate to be implemented as a separate procedure.
3. The array to be sorted and its size should be declared in the data segment. You can assume there's no more than 100 elements, and all numbers are double words. The sorted array should be stored in the same place as in the original array.
4. Your code must print the sorted array using `printf`.
5. **If your code does not assemble, you will earn 0 credit. If your program only meets some of the requirements, make sure that there are no errors to earn partial credit.**