Cade Nichols - Homework 3 - Due: October 2nd, 2022 - CSCI 2525 H01

Reorder.asm
Rearrange values of an array into ascending order

Pseudocode:
Declare array variable to house the 3 given numbers
Declare variable to get size of array

Clear registers

Load array into eax
Use xchg function to switch the given numbers in memory to the register
Store list size variable into a register
Display array in correct order

Fibonacci.asm
Compute and display the fibonacci sequence in memory out to iteration 9
Display iterations 5 - 9 into a register

Pseudocode:
Declare first 2 interactions of fibonacci sequence
Create empty array of 9 elements

Clear registers

Set counter variable to 9
Move first iterations into al register
Move second into dl register
Save first iteration into array manually

Create loop
Add the 2 existing numbers in al and dl together
Save new number into next bit of array
Save previous number in array into al
Save current number into dl
Repeat loop until counter is met

Zero ebx register
Move a pointer pointing to 5th iteration of array into ebx
Call dumpregs to show 5 - 9 has appeared in ebx register
Eat cake