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Assignment: Lab 5: Subroutines
CMPE 012, Computer Systems and Assembly Language
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Description: This is the flow diagram using draw.io. I made each step a certain color. This refers to the subroutine that it is in.
The color that corresponds to a certain subroutine is at the bottom of the file

display string from data → store user input → store end time in syscall 30 → subtract 1st time with final time

display string from data → stored in $a0 → $v0: lower 32 bits of time

store user input → $a1: time given

store end time in syscall 30 → $a0: lower 32 bits

subtract 1st time with final time → less than 1st, $v0=1 greater than 1st, $v0=0

compare the 1st and 2nd chars ← compare the 1st and 2nd string addresses ←

compare the 1st and 2nd chars → $a1:2nd char address, $a0:1st char address → $v0=1 same $v0=0 not same

compare the 1st and 2nd string addresses → $a0:1st string address, $a1:2nd string address → $v0=1 same $v0=0 not same

subroutine: give_type_prompt → subroutine: check_user_input_string → subroutine: compare_strings → subroutine: compare_chars