

KUIS ORKOM TAKE-HOME-TEST

DIKUMPULKAN RABU 27 MARET 2024 JAM 12.00 SIANG DI CLASSROOM. TULIS TANGAN, DIUPLOAD FOTO/PDF NYA.

1.

(Lihat Solved Problems Example 2.2, dari smallest dirubah ke largest)

We want to find the LARGEST number in a list of 32-bit positive integers. The word at address 1000 is to hold the value of the LARGEST number after it has been found. The next word contains the number of entries, *n*, in the list. The following *n* words contain the numbers in the list. The program is to start at address 400. Write a RISC-style program to find the LARGEST number and include the assembler directives needed to organize the program and data as specified. While the program has to be able to handle lists of different lengths, include in your code a small list of sample data comprising seven integers.

2.

(SOAL BUKU NOMOR 2.30, Lihat Solved Problems Example 2.1)

Write a subroutine called ALLCAPS that accepts a parameter in a register representing the starting address STRNG in the main memory for a string of ASCII characters in successive bytes, with the NUL control character (value 0) at the end of the string. The subroutine should scan the string beginning at address STRNG and replace every occurrence of a lower-case letter ('a'–'z') with the corresponding upper-case letter ('A'–'Z').

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