

EE3450 Hw2 - Question10 (Quiz 2.12)

總分 10/10 ?

Chapter 2 : Instructions: Language of the Computer

0分, 共0分

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Question 1

10分, 共10分

✓ For the sort program (p44-50 in our lecture notes; Section 2.13 in textbook), we assume that initially $v[] = \{5, 4, 7, 6\}$. What are the values of registers at label "exit2" of inner loop with $i=1$? Also assume before the inner loop $x10=0x800$ and $x11=4$. *

$x5=0x800, x6=5, x7=4, x10=0x800, x11=0, x20=-1$ ✓

$x5=0x800, x6=4, x7=5, x10=0x800, x11=0, x20=1$

$x5=0x808, x6=4, x7=5, x10=0x800, x11=0, x20=-1$

$x5=0x808, x6=4, x7=5, x10=0x800, x11=0, x20=1$

✓ (Continued from previous question) What are the values of registers before "jalr x0, 0(x1)" of swap function call? Again we assume $i=1$ for $v[] = \{5, 4, 7, 6\}$ and $x10=v=0x800, x11=0$. *

$x5=4, x6=0x800, x7=5$

$x5=5, x6=0x800, x7=4$ ✓

$x5=5, x6=0x808, x7=4$

$x5=4, x6=0x808, x7=7$

這份表單是在 清華大學 中建立。

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