

國立臺灣大學九十六學年度轉學生入學考試試題

科目：計算機概論(A)

題號：51

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※ 請在答案卷上標明題號依序作答。

1. (10%) Suppose you want to exchange the values stored in memory cells i and j . What is wrong with the following sequence of steps:
 - (i) Step 1. Move the contents of cell number i to cell number j .
 - (ii) Setp 2. Move the contents of cell number j to cell number i .Design a sequence of steps that correctly exchange the contents of these cells.
2. (10%) How many bits would be in the memory of a computer with 8KB (more precisely KiB) memory?
3. (10%) Estimate how long it would take to transfer a 600-page novel in which each page contains 4000 characters at a transfer rate 57.6 Kbps.
4. (40%) In your own words, briefly explain the following items :
 - (a) URL
 - (b) XML
 - (c) RISC
 - (d) FAT
 - (e) SCSI
5. (15%) Using any high-level programming language to write a program to find the greatest common divisor of two positive integers X and Y .
6. (15%) Please write down the following devices in descending order according to the speed of their access time:
ROM (read-only memory), Tape drives, DRAM, Hard disk drives, CD-ROM drives, SRAM.

試題必須隨卷繳回