- 1. (字母檢查) 寫一個程式,執行下列操作。(40%)
  - a) 從鍵盤讀取一串字串(最多 20 個字元)。
  - b) 輸入想要統計個數的字元,如'a'。
  - c) 輸出字串中所包含的字元個數。
- 2. (猜數字 1A2B)請撰寫一個 C 程式來進行猜數字的遊戲。說明如下:你的程式先產生一個一維整數陣列 int num[4],每個元素為 0~9,且不重複。請使用迴圈來決定是否要再玩次。(60%) 猜的人便輸入第一次猜的數字,然後你的程式應對此數字去比對結果,顯示 XAXB,A表示數字與位置都對,B表示數字對,但位置不對。

- 1. (*Letter Checking*) Write a program that performs each of the following operations. (40%)
  - a) Read a string (at most 20 characters in length).
  - b) Rea a letter, e.g. 'a'.
  - c) Calculate the number of the above letter found in the input string.
- 2. (*Guess the Number*) Write a C program that plays the game of "guess the number" as follows: (60%)

Your program chooses the number to be guessed by selecting an integer array at random. Note each element is different and in the range 0 to 9.

The player then types a guess. The program responds with one of the following: If the player's guess is incorrect, your program should loop until the player finally gets the number right. Your program should keep telling the player XAXB to help the player. [*Note:* 'A' means the number of matching digits. 'B' means that the guessed digits are in the random number.]

By using loop, the user can decide if he wants to play the game again.