Exercise #12

| • | y proba | need to turn in your homework, but you should practice all problems because they ably appear in the later exam. 作業自己練習不用交,之後考試可能會出現類似 |
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| | | m 1. Input an email address string, determine whether it is a valid YZU email. A |
| | | ZU email address must be in the form of username@xxx.yzu.edu.tw username and |
| | | e combinations of any character. For example, |
| | | Invalid YZU email address: s91110@yzu.edu.tw abc@yzu.edu.com |
| | | Valid YZU email address: s91110@mail.yzu.edu.tw catdog@iii.yzu.edu.tw |
| | | You should check |
| | | Does it contain the parts of username@xxx? |
| | | Are the last 11 characters '.yzu.edu.tw'? |
| | | 輸入email address 判斷是否為有效的yzu email,並需檢查前面是否含有username@xxx,以及後面11個字元是否為'.yzu.edu.tw' |
| | Proble | m 2. Write a function get_fname(pathname) to return the filename without the file |
| | extens | ion. 寫一個function, 傳檔名路徑,提取檔案名稱,不含副檔名 |
| | | For example, |
| | | char * p = get_fname("d:\\vc\\abc.cpp"); |
| | | printf("%s", p); |
| | | Output: abc |
| | 0 | Input and output in main() and function processes the string. |
| | Proble | m 3. Displaying a Sentence with Its Words Reversed. |
| | | Ex. Today is hot → hot is Today |
| | | Write a program that inputs a line of text, tokenizes the line with function strtok |
| | | and outputs the tokens in reverse order. |
| | | void reverse_word(char *s1, char *s2); |
| | | reverse words of s1 and store in s2. initialize s2 to 0 in main() |
| | | Input and output in main() and function processes the string. |
| | | Hint: use a char* pointer array to store the token pointers |
| | 0 | 使用指標陣列接收token指標 |
| | Proble | m 4. Given a string, you need to reverse the order of characters in each word within |
| | a sente | ence while still preserving whitespace and initial word order. |
| | | Ex. Today is hot → yadoT si toh |
| | | Note: In the string, each word is separated by single space and there will not be |
| | | any extra space in the string. |
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| Proble | m 5. Uncommon Words from Two Sentences |
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| | We are given two sentences A and B. (A sentence is a string of space separated |
| | words. Each word consists only of lowercase letters.) |
| | A word is uncommon if it appears exactly once in one of the sentences, and does |
| | not appear in the other sentence. |
| | Return a list of all uncommon words. You may return the list in any order. |
| | Note: |
| | □ 0 <= A.length <= 200 |
| | □ 0 <= B.length <= 200 |
| | ☐ A and B both contain only spaces and lowercase letters. |
| | Example 1: |
| | ☐ Input: A = "this apple is sweet", B = "this apple is sour" |
| | ☐ Output: ["sweet","sour"] |
| | Example 2: |
| | ☐ Input: A = "apple apple", B = "banana" |
| | ☐ Output: ["banana"] |
| | |
| Proble | m 6. Word Pattern |
| | Given a pattern and a string str, find if str follows the same pattern. |
| | Here follow means a full match, such that there is a bijection between a letter in |
| | pattern and a non-empty word in str. |
| | Notes: You may assume pattern contains only lowercase letters, and str contains |
| | lowercase letters that may be separated by a single space. |
| | Example 1: |
| | Input: pattern = "abba", str = "dog cat cat dog" |
| | Output: true |
| | Example 2: |
| | Input:pattern = "abba", str = "dog cat cat fish" |
| | Output: false |
| | Example 3: |
| | Input: pattern = "aaaa", str = "dog cat cat dog" |
| | Output: false |
| | Example 4: |
| | Input: pattern = "abba", str = "dog dog dog dog" |
| 0 | Output: false |
| Proble | m 7. Integer to English Words |
| | Convert a non-negative integer to its English words representation. Given input is |
| | guaranteed to be less than 2 ³¹ - 1. |

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