

練習 8 - pull and conflict - 乙

這個練習的目是先修改程式碼，再從伺服器 pull 新的程式碼，但因程式有衝突而 Git 無法自動合併，所以必須進行手動合併後，最後再 push 一份新的程式碼到伺服器，Push 與 Pull 的方式可參考練習 5、6。

1. 將下方程式碼複製到 GitTutorial.cpp，並且 Commit/Push 到伺服器

```
#include <string>
#include <iostream>
#include <cstdlib>
#include <ctime>

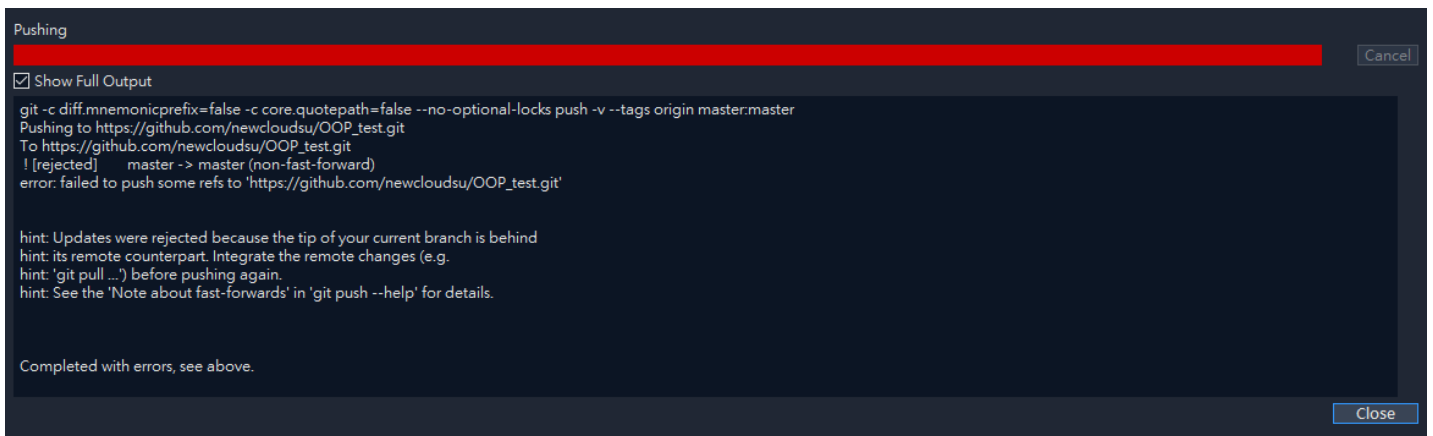
bool Guess(int number) {
    static int target = -1;

    srand(time(NULL));
    if (target == -1) {
        target = rand() % 100 + 1;
    }

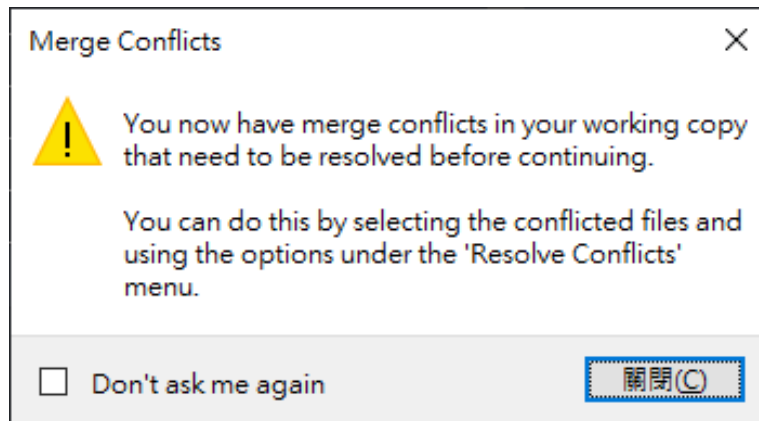
    if (number == target) {
        std::cout << "Correct !!";
        target = -1;
        return true;
    }
    else std::cout << "Wrong" << std::endl;
    return false;
}


int main()
{
    int guess;
    do {
        std::cin >> guess;
    } while (!Guess(guess));
    return 0;
}
```

2. 後 push 的同學會發現 push failed，代表伺服器有新的檔案



3. 這時候再從伺服器 pull 一次，會出現訊息提示發生衝突



4. GitTutorial.cpp 出現 ，到GitTutorial.cpp，發現 GitTutorial.cpp 會被改成這樣

(上方HEAD 到=====為這次commit的程式碼片段，=====到下方>> (hash code))

為伺服器的部分的程式碼片段，可以提供使用者選擇如何修改)

```
14
15 <<<<<< HEAD
16     if (number == target) {
17         std::cout << "Correct !!";
18         target = -1;
19         return true;
20     }
21     else std::cout << "Wrong" << std::endl;
22     return false;
23
24     if (number > target) {
25         std::cout << "Smaller" << std::endl;
26         return false;
27     }
28     else if (number < target) {
29         std::cout << "Bigger" << std::endl;
30         return false;
31     }
32     return true;
33
34 >>>>>> c21697a173ebd80a9dc8a175e32bd083df37ae5e
```

5. 將下方的程式碼覆蓋到被修改的程式碼上並再次 commit 變更及push

```
if (number == target)
{
    std::cout <<
    "Correct !!"; target = -1;
    return true;
}
else if (number > target) std::cout << "Smaller" << std::endl;
else if (number < target) std::cout << "Bigger" << std::endl;
return false;
```

6. 衝突解決

The screenshot displays the Visual Studio Code interface with the Git extension. The top menu bar includes File, Edit, View, Repository, Actions, Tools, and Help. The left sidebar shows the WORKSPACE with File Status, History, and Search. The main area is divided into three sections: a Git graph, a commit list, and a file diff view.

Git Graph: Shows a merge of branch 'master' from https://github.com/newcloudsu/OOP_test into the local master branch. The commit list shows the merge commit (6fb80ae) and its parents (9e7ee5e90e, 918e34519d).

Commit List:

Commit	Date	Author	Commit
6fb80ae	10 三月 2021 21:27	css-wu_win10_gi	6fb80ae
9e7ee5e90e	10 三月 2021 20:57	css-wu_win10_gi	9e7ee5e
918e34519d	10 三月 2021 20:21	newcloudsu <s21	918e345
	10 三月 2021 19:47	newcloudsu <s21	27cd1d1
	10 三月 2021 19:28	css-wu_win10_gi	c8f50b6
	10 三月 2021 14:14	newcloudsu <s21	d168fde
	9 三月 2021 22:03	css-wu_win10_gi	d15114d
	9 三月 2021 20:32	109598088 <han	765b043

File Diff View: Shows the .gitignore file with a conflict. The diff shows the merge of the master branch from https://github.com/newcloudsu/OOP_test into the local master branch. The conflict is resolved by selecting the 'X64/' directory.

Commit Details:

Commit: 6fb80ae322d8bd80ad69c77704a0b8a02c727bea [6fb80ae]
Parents: 9e7ee5e90e, 918e34519d
Author: css-wu_win10_github_desktop <t109598085@ntut.edu.tw>
Date: 2021年3月10日 下午 09:27:12
Committer: css-wu_win10_github_desktop

Merge branch 'master' of https://github.com/newcloudsu/OOP_test

Conflicts:
GitTutorial/GitTutorial/GitTutorial.cpp

File List:

- .gitignore
- GitTutorial/GitTutorial/GitTutorial.cpp
- GitTutorial/GitTutorial/x64/Debug/GitTutorial.log
- GitTutorial/GitTutorial/x64/Debug/GitTutorial.obj
- GitTutorial/GitTutorial/x64/Debug/vc141.idb
- GitTutorial/GitTutorial/x64/Debug/vc141.pdb