## 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 "stdafx.h"
#include <string>
#include <iostream>
using namespace System;
bool Guess(int number) {
     static int target = -1;
     if (target == -1) {
          Random r;
          target = r.Next() % 100 + 1;
     }
     if (number == target) {
     std::cout << "Correct !!";</pre>
     target = -1;
     return true;
     else std::cout << "Wrong" << std::endl;</pre>
    return false;
}
int main(array<System::String ^> ^args)
{
     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

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git -c diff.mnemon Pushing to https:// To https://Margatr ! [rejected] ma	nicprefix=false -c core.quotepath=false push -v -tags origin master:master /Margatroidz@github.com/Margatroidz/GitTutorial.git roidz@github.com/Margatroidz/GitTutorial.git aster -> master (non-fast-forward)	^
error: failed to pus hint: Updates were hint: its remote cou hint: 'git pull') be hint: See the 'Note Completed with er	sh some refs to 'https://Margatroidz@github.com/Margatroidz/GitTutorial.git' e rejected because the tip of your current branch is behind unterpart. Integrate the remote changes (e.g. efore pushing again. e about fast-forwards' in 'git pushhelp' for details. rrors, see above.	
		Close
		ciose
	Mystia <as80110680@gmail.com></as80110680@gmail.com>	Commit options *

3. 這時候再從伺服器 pull 一次,會出現訊息提示發生衝突

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git -c diff.mnemonicprefix=false -c core.quotepath=false fetch origin	~ e
git -c diff.mnemonicprefix=false -c core.quotepath=false pull origin master From https://github.com/Margatroidz/GitTutorial * branch master -> FETCH_HEAD	17
Auto-merging GitTutorial/GitTutorial.Gpp CONFLICT (content): Merge conflict in GitTutorial/GitTutorial.cpp Automatic merge failed; fix conflicts and then commit the result.	1
Completed with errors, see above.	~ ~
	Close
Author: Mystia <as80110680@gmail.com> Date: 2017年2月17日下午 04:28:21 Labels: HEAD, -&gt;, master conflict</as80110680@gmail.com>	
.gitignore	
GitTutorial/GitTutorial.cpp	
GitTutorial/ipch/GITTUTORIAL-d24a3b8f/GITTUTORIAL-658c0684.ipch	

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

(上方 HEAD 到=====為伺服器的程式碼片段,====到下方>>(hash code)的 部分為這次 commit 的程式碼片段,可以提供使用者選擇如何修改)



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;</pre>
```

## 6. 衝突解決

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> 🛆 origin				
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	Commit: 89fd9d60e5ef41de16bbc460d2ac33bf72dbcf91 [89fd9d6] Parents: 49dd92d450, c21697a173 Author: Mystik <as8010680@gmail.com> Date: 2017#2/R17B TF+ 04:49:38 Labels: HEAD, -&gt;, master, origin/master Merge branch 'master' of https://github.com/Margatroidz/GitTutorial # Conflicts: # GitTutorial/GitTutorial/GitTutorial.cpp GitTutorial/GitTutorial/GitTutorial.cpp</as8010680@gmail.com>			