

Part I

Сам файл hello_world.cpp

```
theblindpew@MacBook-Pro-Vladislav lab02 % cat hello_world.cpp
#include <iostream>
using namespace std;
int main()
{
    cout<<"Hello world";
}
theblindpew@MacBook-Pro-Vladislav lab02 % brew install vi
```

Первый пуш

```
theblindpew@MacBook-Pro-Vladislav lab02 % git push origin main
Enumerating objects: 7, done.
Counting objects: 100% (7/7), done.
Delta compression using up to 8 threads
Compressing objects: 100% (6/6), done.
Writing objects: 100% (6/6), 695 bytes | 695.00 KiB/s, done.
Total 6 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), done.
To https://github.com/the-blind-pew/lab02.git
d6c6e6b..2cf923a  main -> main
```

Проверка истории коммитов

```
no changes added to commit (use "git add" and/or "git commit -a")
theblindpew@MacBook-Pro-Vladislav lab02 % git add hello_world.cpp
theblindpew@MacBook-Pro-Vladislav lab02 % git commit -m "Second commit"
[main 2cf923a] Second commit
 1 file changed, 4 insertions(+), 1 deletion(-)
theblindpew@MacBook-Pro-Vladislav lab02 % git push origin main
Enumerating objects: 7, done.
Counting objects: 100% (7/7), done.
Delta compression using up to 8 threads
Compressing objects: 100% (6/6), done.
Writing objects: 100% (6/6), 695 bytes | 695.00 KiB/s, done.
Total 6 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), done.
To https://github.com/the-blind-pew/lab02.git
d6c6e6b..2cf923a  main -> main
theblindpew@MacBook-Pro-Vladislav lab02 % git log
commit 2cf923a8575fe33aa05cde3261106702a7450043 (HEAD -> main, origin/main, origin/HEAD)
Author: the-blind-pew <maf10aaa03v00@gmail.com>
Date:   Tue Mar 8 15:29:26 2022 +0300

    Second commit

commit 1e8429a1e26e307e0007399177195f08c6eb5e1f
Author: the-blind-pew <maf10aaa03v00@gmail.com>
Date:   Tue Mar 8 15:12:14 2022 +0300

    first commit

commit d6c6e6b3ba089861e5fe72892607c4bb9a60608f
Author: the-blind-pew <91693238+the-blind-pew@users.noreply.github.com>
Date:   Tue Mar 8 14:12:22 2022 +0300

    Initial commit
theblindpew@MacBook-Pro-Vladislav lab02 % █
```

Part II

1.Создание ветки patch1

```
* main
theblindpew@MacBook-Pro-Vladislav lab02 % git checkout -b patch1
Switched to a new branch 'patch1'
theblindpew@MacBook-Pro-Vladislav lab02 % git branch
  main
* patch1
theblindpew@MacBook-Pro-Vladislav lab02 % █
```

2.Файл после изменения

```

theblindpew@MacBook-Pro-Vladislav lab02 % vi hello_world.cpp
theblindpew@MacBook-Pro-Vladislav lab02 % cat hello_world.cpp
#include <iostream>
#include <string>

int main() {
    std::string name;
    std::cin >> name;
    std::cout << "Hello world from" << name;
}

```

3.Первый коммит + пуш

```

theblindpew@MacBook-Pro-Vladislav lab02 % git status
On branch patch1
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
    modified:   hello_world.cpp

no changes added to commit (use "git add" and/or "git commit -a")
theblindpew@MacBook-Pro-Vladislav lab02 % git add hello_world.cpp
theblindpew@MacBook-Pro-Vladislav lab02 % git commit -m "First commit of part II"
[patch1 237447a] First commit of part II
1 file changed, 5 insertions(+), 6 deletions(-)

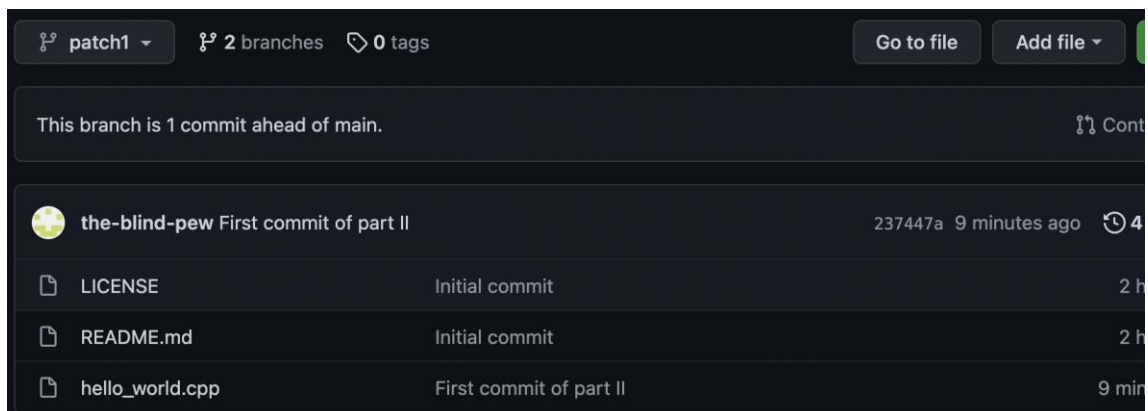
```

```

theblindpew@MacBook-Pro-Vladislav lab02 % git push origin patch1
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 8 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 357 bytes | 357.00 KiB/s, done.
Total 3 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
remote:
remote: Create a pull request for 'patch1' on GitHub by visiting:
remote:   https://github.com/the-blind-pew/lab02/pull/new/patch1
remote:
To https://github.com/the-blind-pew/lab02.git
 * [new branch]   patch1 -> patch1


```

4.Доступность новой ветки



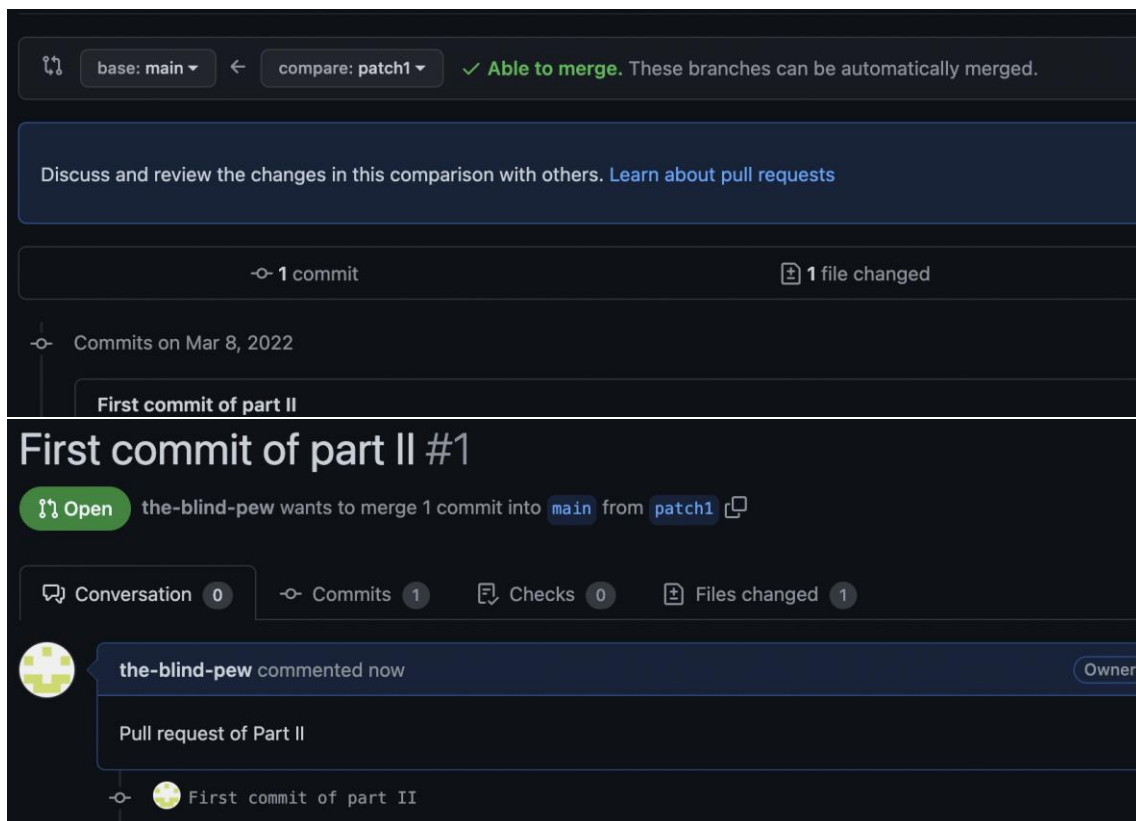
patch1 2 branches 0 tags Go to file Add file

This branch is 1 commit ahead of main.

 the-blind-pew First commit of part II 237447a 9 minutes ago 4

File	Commit	Time
LICENSE	Initial commit	2 h
README.md	Initial commit	2 h
hello_world.cpp	First commit of part II	9 min

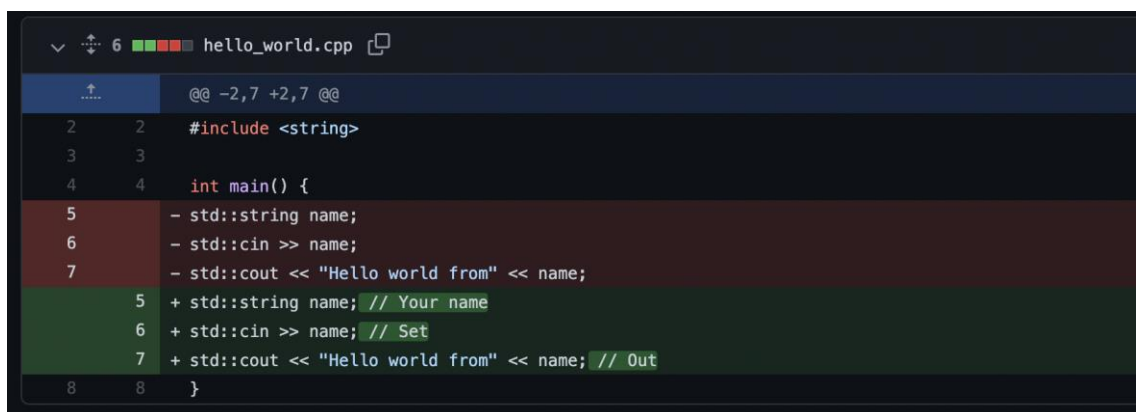
5.Пулл реквест



6-7. Коммит и пуш комментированного кода

```
theblindpew@MacBook-Pro-Vladislav lab02 % git add hello_world.cpp
theblindpew@MacBook-Pro-Vladislav lab02 % git commit -m "Commented code"
[patch1 cebef93] Commented code
1 file changed, 3 insertions(+), 3 deletions(-)
theblindpew@MacBook-Pro-Vladislav lab02 % git push origin patch1
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 8 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 368 bytes | 368.00 KiB/s, done.
Total 3 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To https://github.com/the-blind-pew/lab02.git
237447a..cebef93 patch1 -> patch1
```

8. Проверка пуша



9. Слияние веток (удалённо нужно было через git, но я дебил)

The screenshot shows the GitHub interface for the repository 'the-blind-pew/lab02'. The 'Pull requests' tab is selected, displaying a message: 'There aren't any open pull requests. You could search all of GitHub or try an advanced search.' Below this, a terminal window shows the following commands and output:

```
theblindpew@MacBook-Pro-Vladislav lab02 % git merge patch1
Already up to date.
theblindpew@MacBook-Pro-Vladislav lab02 % git branch
  main
* patch1
theblindpew@MacBook-Pro-Vladislav lab02 % git checkout main
Switched to branch 'main'
Your branch is up to date with 'origin/main'.
theblindpew@MacBook-Pro-Vladislav lab02 % git merge patch1
Updating 2cf923a..cebef93
Fast-forward
 hello_world.cpp | 11 +++++-----
 1 file changed, 5 insertions(+), 6 deletions(-)
theblindpew@MacBook-Pro-Vladislav lab02 % git push origin main
Total 0 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/the-blind-pew/lab02.git
 2cf923a..cebef93  main -> main
```

10. Пулл из удалённого репозитория

```
theblindpew@MacBook-Pro-Vladislav lab02 % git pull origin main
hint: Pulling without specifying how to reconcile divergent branches is
hint: discouraged. You can squelch this message by running one of the following
hint: commands sometime before your next pull:
hint:
hint:   git config pull.rebase false  # merge (the default strategy)
hint:   git config pull.rebase true   # rebase
hint:   git config pull.ff only       # fast-forward only
hint:
hint: You can replace "git config" with "git config --global" to set a default
hint: preference for all repositories. You can also pass --rebase, --no-rebase,
hint: or --ff-only on the command line to override the configured default per
hint: invocation.
From https://github.com/the-blind-pew/lab02
* branch            main      -> FETCH_HEAD
Already up to date.
```

11. История коммитов

```

theblindpew@MacBook-Pro-Vladislav lab02 % git log
commit cebef936615903795645951f6cfd275b47d7dc61 (HEAD -> main, origin/patch1, origin/main, origin/HEAD, patch1)
Author: the-blind-pew <maf10aaa03v00@gmail.com>
Date: Tue Mar 8 17:12:19 2022 +0300

    Commented code

commit 237447a4a8e8c795ff7ef65d0f4f33c2cf05e101
Author: the-blind-pew <maf10aaa03v00@gmail.com>
Date: Tue Mar 8 15:49:05 2022 +0300

    First commit of part II

commit 2cf923a8575fe33aa05cde3261106702a7450043
Author: the-blind-pew <maf10aaa03v00@gmail.com>
Date: Tue Mar 8 15:29:26 2022 +0300

    Second commit

commit 1e8429a1e26e307e0007399177195f08c6eb5e1f
Author: the-blind-pew <maf10aaa03v00@gmail.com>
Date: Tue Mar 8 15:12:14 2022 +0300

    first commit

commit d6c6e6b3ba089861e5fe72892607c4bb9a60608f
Author: the-blind-pew <91693238+the-blind-pew@users.noreply.github.com>
Date: Tue Mar 8 14:12:22 2022 +0300

    Initial commit

```

12. Удаление локальной ветки

```

theblindpew@MacBook-Pro-Vladislav lab02 % git branch -v
* main      cebef93 Commented code
  patch1    cebef93 Commented code
theblindpew@MacBook-Pro-Vladislav lab02 % git branch -d patch1
Deleted branch patch1 (was cebef93).
theblindpew@MacBook-Pro-Vladislav lab02 % git branch
* main
theblindpew@MacBook-Pro-Vladislav lab02 %

```

Part III

2. Изменение кодстайла (-i для работы непосредственно с этим файлом, а не его копией)

```

theblindpew@MacBook-Pro-Vladislav lab02 % cat hello_world.cpp
#include <iostream>
#include <string>

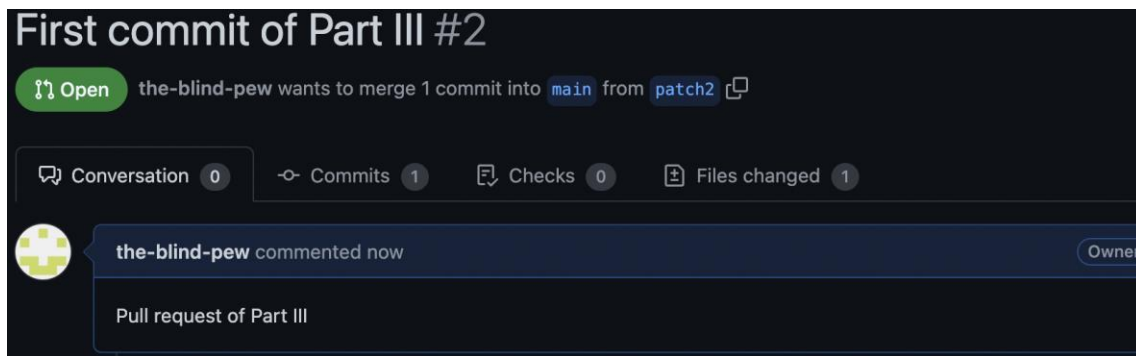
int main() {
    std::string name; // Your name
    std::cin >> name; // Set
    std::cout << "Hello world from" << name; // Out
}

theblindpew@MacBook-Pro-Vladislav lab02 % clang-format -i -style=Mozilla hello_world.cpp
theblindpew@MacBook-Pro-Vladislav lab02 % cat hello_world.cpp
#include <iostream>
#include <string>

int
main()
{
    std::string name;           // Your name
    std::cin >> name;           // Set
    std::cout << "Hello world from" << name; // Out
}

```

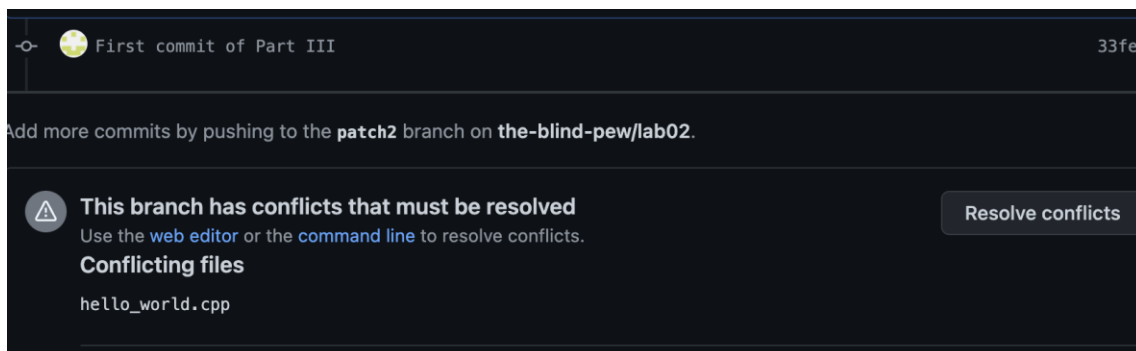
3. Пулл реквест



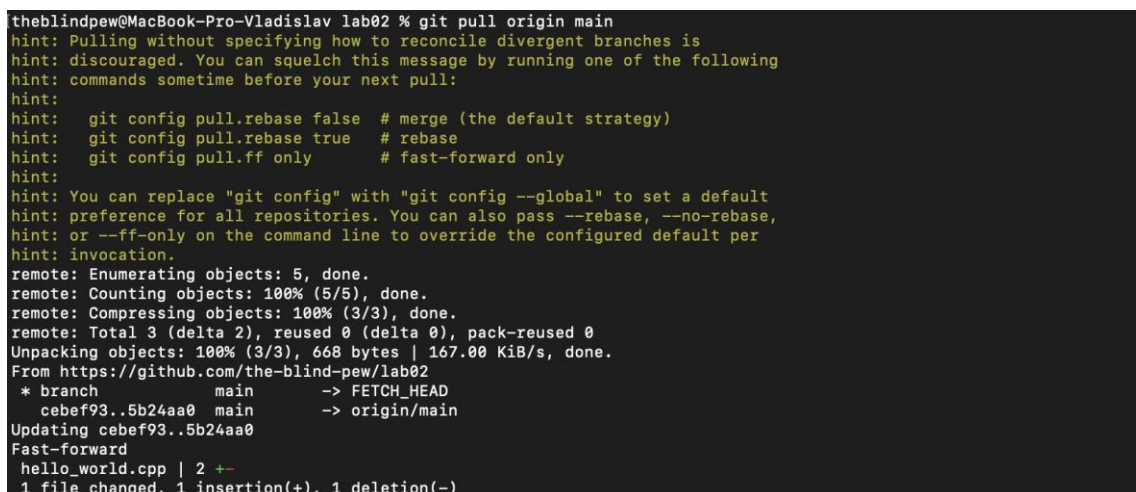
4.Изменение удалённого репозитория



5.Конфликты в удалённом репозитории



6.Решение конфликтов



```

theblindpew@MacBook-Pro-Vladislav lab02 % git rebase main
Auto-merging hello_world.cpp
CONFLICT (content): Merge conflict in hello_world.cpp
error: could not apply 33fe7fd... First commit of Part III
Resolve all conflicts manually, mark them as resolved with
"git add/rm <conflicted_files>", then run "git rebase --continue".
You can instead skip this commit: run "git rebase --skip".
To abort and get back to the state before "git rebase", run "git rebase --abort".
Could not apply 33fe7fd... First commit of Part III

theblindpew@MacBook-Pro-Vladislav lab02 % cat hello_world.cpp
#include <iostream>
#include <string>

<<<<<<< HEAD
int main() {
    std::string name; // Your name!!!
    std::cin >> name; // Set
    std::cout << "Hello world from" << name; // Out
    =====
    int
    main()
    {
        std::string name;                // Your name
        std::cin >> name;                // Set
        std::cout << "Hello world from" << name; // Out
    }
>>>>>> 33fe7fd (First commit of Part III)

```

```

theblindpew@MacBook-Pro-Vladislav lab02 % git commit -am "solve conflict"
[detached HEAD 168902f] solve conflict
1 file changed, 6 insertions(+), 4 deletions(-)

```

7. force push

```

theblindpew@MacBook-Pro-Vladislav lab02 % git push -f origin patch2
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 8 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 374 bytes | 374.00 KiB/s, done.
Total 3 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To https://github.com/the-blind-pew/lab02.git
+ 33fe7fd...168902f patch2 -> patch2 (forced update)

```

8. Проверка отсутствия конфликтов

solve conflict
 168

the-blind-pew force-pushed the patch2 branch from 33fe7fd to 168902f now

Add more commits by pushing to the patch2 branch on the-blind-pew/lab02.

Continuous integration has not been set up
 GitHub Actions and several other apps can be used to automatically catch bugs and enforce style.

This branch has no conflicts with the base branch
 Merging can be performed automatically.

Merge pull request
 You can also open this in GitHub Desktop or view command line instructions.

9. Слияние веток

Your branches

patch2 Updated 7 minutes ago by the-blind-pew
 1,0
 #2 Merged