Федеральное государственное бюджетное образовательное учреждение высшего образования «Национальный исследовательский университет «МЭИ»

Институт информационных и вычислительных технологий

Кафедра Управления и интеллектуальных технологий

**Отчёт по лабораторной работе № 2**

# По курсу «Разработка ПО систем управления»

# «Система контроля версий Git»

# Выполнил студент группы А-01-20

# Котухов М.Д.

# Проверили

# Мохов А. С

# Козлюк Д. А

1. **Создание каталогов боб и Алиса**

user@hp MINGW64 ~/Desktop/lab03

$ mkdir bob

user@hp MINGW64 ~/Desktop/lab03

$ cd alice

1. **Создали проект в алисе**

user@hp MINGW64 ~/Desktop/lab03/alice

$ mkdir project

1. **Перешли в папку проекта**

user@hp MINGW64 ~/Desktop/lab03/alice

$ cd project

1. **Инициализируем репозитарий в текущем каталоге (project):**

user@hp MINGW64 ~/Desktop/lab03/alice/project

$ git init

Initialized empty Git repository in C:/Users/user/Desktop/lab03/alice/project/.git/

1. **Настроим репозитарий Алисы, чтобы коммиты были от ее имени**

user@hp MINGW64 ~/Desktop/lab03/alice/project (master)

$ git config user.name 'Alice (KotukhovMD)'

user@hp MINGW64 ~/Desktop/lab03/alice/project (master)

$ git config user.email 'alice@example.com'

1. **Запускаем CodeBlocks и создаем проект в репозитарии Alice**

Project title: lab02  
Folder to create project in: C:\Users\user\Desktop\lab03\alice  
Project filename: lab02.cbp  
Resulting filename: C:\Users\user\Desktop\lab03\alice\project\lab02.cbp

1. **Перейдем в папку lab02**

user@hp MINGW64 ~/Desktop/lab03/alice/project (master)

$ cd lab02

1. Добавим файл main.cpp в отслеживаемые

user@hp MINGW64 ~/Desktop/lab03/alice/project/lab02 (master)

$ git add main.cpp

1. **делаем коммит вместе с файлом main.cpp**

user@hp MINGW64 ~/Desktop/lab03/alice/project/lab02 (master)

$ git commit -m 'code: заготовка программы'

[master (root-commit) 21012d4] code: заготовка программы

1 file changed, 9 insertions(+)

create mode 100644 lab02/main.cpp

1. **Добавляем еще один файл и коммитим его**

user@hp MINGW64 ~/Desktop/lab03/alice/project/lab02 (master)

$ git add lab02.cbp

warning: LF will be replaced by CRLF in lab02/lab02.cbp.

The file will have its original line endings in your working directory

user@hp MINGW64 ~/Desktop/lab03/alice/project/lab02 (master)

$ git commit -m 'build'

[master 7bd9a10] build

1 file changed, 40 insertions(+)

create mode 100644 lab02/lab02.cbp

1. Заменим тело функции main() на ввод двух чисел

cout << "Enter A and B: ";

int a, b;

cin >> a >> b

1. **Проверяем состояние рабочей копии**

user@hp MINGW64 ~/Desktop/lab03/alice/project/lab02 (master)

$ git status

On branch master

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: main.cpp

Untracked files:

(use "git add <file>..." to include in what will be committed)

lab02.layout

no changes added to commit (use "git add" and/or "git commit -a")

1. **Добавляем измененный файл в индекс и коммитим**

user@hp MINGW64 ~/Desktop/lab03/alice/project/lab02 (master)

$ git add main.cpp

user@hp MINGW64 ~/Desktop/lab03/alice/project/lab02 (master)

$ git commit -m "vvod chisel"

[master 6dfa598] vvod chisel

1 file changed, 3 insertions(+), 1 deletion(-)

1. **Добавляем в программу операцию суммы чисел и делаем коммит**

Cout << “A+B= “<< a+b<< ‘\n’’

user@hp MINGW64 ~/Desktop/lab03/alice/project/lab02 (master)

$ git add main.cpp

user@hp MINGW64 ~/Desktop/lab03/alice/project/lab02 (master)

$ git commit -m 'code: сумма чисел'

[master 6676571] code: сумма чисел

1 file changed, 10 insertions(+)

create mode 100644 lab02/lab02.layout

1. **Так же добавляем в программу разность**

Cout<< “A-B=”<< a - b << ‘\n’;

user@hp MINGW64 ~/Desktop/lab03/alice/project/lab02 (master)

$ git add main.cpp

user@hp MINGW64 ~/Desktop/lab03/alice/project/lab02 (master)

$ git commit -a -m 'code: разность чисел'

[master 630640d] code: разность чисел

1 file changed, 4 insertions(+), 2 deletions(-)

1. **создаем файл .gitignore**

user@hp MINGW64 ~/Desktop/lab03/alice/project/lab02 (master)

$ git add .gitignore

user@hp MINGW64 ~/Desktop/lab03/alice/project/lab02 (master)

$ git commit -m 'code: gitignore'

[master cf26fd3] code: gitignore

1 file changed, 1 insertion(+)

create mode 100644 lab02/.gitignore

1. Проверим журнал репозитария

user@hp MINGW64 ~/Desktop/lab03/alice/project/lab02 (master)

$ git log --oneline --decorate --all --graph

\* 630640d (HEAD -> master) code: разность чисел

\* 6676571 code: сумма чисел

\* 6dfa598 vvod chisel

\* 7bd9a10 build

\* 21012d4 code: заготовка программы

1. Посмотрим последний коммит тремя способами
2. git show HEAD (текущий)

user@hp MINGW64 ~/Desktop/lab03/alice/project/lab02 (master)

$ git show HEAD

commit cf26fd311e480713ae4409d58c105e167333c4c8 (HEAD -> master)

Author: Alice (KotukhovMD) <alice@example.com>

Date: Sun Mar 14 21:04:25 2021 +0300

code: gitignore

**diff --git a/lab02/.gitignore b/lab02/.gitignore**

**new file mode 100644**

**index 0000000..5e56e04**

**--- /dev/null**

**+++ b/lab02/.gitignore**

@@ -0,0 +1 @@

+/bin

+/obj

1. git show master (по имени ветви)

user@hp MINGW64 ~/Desktop/lab03/alice/project/lab02 (master)

$ git show master

commit cf26fd311e480713ae4409d58c105e167333c4c8 (HEAD -> master)

Author: Alice (KotukhovMD) <alice@example.com>

Date: Sun Mar 14 21:04:25 2021 +0300

code: gitignore

**diff --git a/lab02/.gitignore b/lab02/.gitignore**

**new file mode 100644**

**index 0000000..5e56e04**

**--- /dev/null**

**+++ b/lab02/.gitignore**

@@ -0,0 +1 @@

+/bin

+/obj

1. git show d2e8af (по хэшу нужного коммита)

user@hp MINGW64 ~/Desktop/lab03/alice/project/lab02 (master)

$ git show cf26fd3

commit cf26fd311e480713ae4409d58c105e167333c4c8 (HEAD -> master)

Author: Alice (KotukhovMD) <alice@example.com>

Date: Sun Mar 14 21:04:25 2021 +0300

code: gitignore

**diff --git a/lab02/.gitignore b/lab02/.gitignore**

**new file mode 100644**

**index 0000000..5e56e04**

**--- /dev/null**

**+++ b/lab02/.gitignore**

@@ -0,0 +1 @@

+/bin

+/obj

1. **Внесем изменения в main.cpp: добавим печать произведения чисел (без коммита)**

**//посомтрим изменения в рабочей копии**

user@hp MINGW64 ~/Desktop/lab03/alice/project/lab02 (master)

$ git diff

**diff --git a/lab02/main.cpp b/lab02/main.cpp**

**index 24e4f37..8bbaeb3 100644**

**--- a/lab02/main.cpp**

**+++ b/lab02/main.cpp**

@@ -9,5 +9,6 @@ int a, b;

cin >> a >> b;

cout << "A + B = " << a + b << '\n'

<< "A - B = " << a - b << '\n'

+ << "A \* B = " << a \* b << '\n'

return 0;

}

1. **) Посмотрим изменения между первым коммитом и тот который выводит разность**

user@hp MINGW64 ~/Desktop/lab03/alice/project/lab02 (master)

$ git diff HEAD~2

**diff --git a/lab02/.gitignore b/lab02/.gitignore**

**new file mode 100644**

**index 0000000..4c7473d**

**--- /dev/null**

**+++ b/lab02/.gitignore**

@@ -0,0 +1,2 @@

+/bin

+/obj

**diff --git a/lab02/main.cpp b/lab02/main.cpp**

**index 0d12056..8bbaeb3 100644**

**--- a/lab02/main.cpp**

**+++ b/lab02/main.cpp**

@@ -5,7 +5,10 @@ using namespace std;

int main()

{

cout << "Enter A and B: ";

-int a, b;

-cin >> a >> b

+double a, b;

+cin >> a >> b;

+cout << "A + B = " << a + b << '\n'

+ << "A - B = " << a - b << '\n'

+ << "A \* B = " << a \* b << '\n'

return 0;

}

1. Закоммитим изменения

user@hp MINGW64 ~/Desktop/lab03/alice/project/lab02 (master)

$ git add main.cpp

user@hp MINGW64 ~/Desktop/lab03/alice/project/lab02 (master)

$ git commit -m 'code: произведение чисел'

[master 6ae1f75] code: произведение чисел

1 file changed, 1 insertion(+)

1. Удалим коммит

user@hp MINGW64 ~/Desktop/lab03/alice/project/lab02 (master)

$ git reset --hard HEAD~1

HEAD is now at cf26fd3 code: gitignore

1. Создаем репозитарий на github.com с название cs-lab-02

user@hp MINGW64 ~/Desktop/lab03/alice/project/lab02 (master)

$ git push -u origin master

Enumerating objects: 24, done.

Counting objects: 100% (24/24), done.

Delta compression using up to 4 threads

Compressing objects: 100% (16/16), done.

Writing objects: 100% (24/24), 2.64 KiB | 451.00 KiB/s, done.

Total 24 (delta 2), reused 0 (delta 0), pack-reused 0

remote: Resolving deltas: 100% (2/2), done.

To https://github.com/kotukhov/cs-lab02.git

\* [new branch] master -> master

Branch 'master' set up to track remote branch 'master' from 'origin'.

1. **Открываем терминал git bash для bob и клонируем проект**

user@hp MINGW64 ~/Desktop/lab03/bob

$ git clone https://github.com/kotukhov/cs-lab02 project

Cloning into 'project'...

remote: Enumerating objects: 24, done.

remote: Counting objects: 100% (24/24), done.

remote: Compressing objects: 100% (14/14), done.

remote: Total 24 (delta 2), reused 24 (delta 2), pack-reused 0

Receiving objects: 100% (24/24), done.

Resolving deltas: 100% (2/2), done.

user@hp MINGW64 ~/Desktop/lab03/bob

$ cd project

1. Добавляем в программу боба печать произведения, инициализируем и делаем коммит

cout << "A + B = " << a + b << '\n'

<< "A - B = " << a - b << '\n'

<< "A \* B = " << a \* b << '\n';

user@hp MINGW64 ~/Desktop/lab03/bob/project (master)

$ cd lab02

user@hp MINGW64 ~/Desktop/lab03/bob/project/lab02 (master)

$ git config user.name 'Bob (KotukhovMD)'

user@hp MINGW64 ~/Desktop/lab03/bob/project/lab02 (master)

$ git config user.email 'bob@example.com'

user@hp MINGW64 ~/Desktop/lab03/bob/project/lab02 (master)

$ git add main.cpp

user@hp MINGW64 ~/Desktop/lab03/bob/project/lab02 (master)

$ git commit -m 'code: произведение чисел'

[master bd819c8] code: произведение чисел

1 file changed, 1 insertion(+)

1. Отправляем на GitHub

user@hp MINGW64 ~/Desktop/lab03/bob/project/lab02 (master)

$ git push

Enumerating objects: 7, done.

Counting objects: 100% (7/7), done.

Delta compression using up to 4 threads

Compressing objects: 100% (3/3), done.

Writing objects: 100% (4/4), 388 bytes | 388.00 KiB/s, done.

Total 4 (delta 2), reused 0 (delta 0), pack-reused 0

remote: Resolving deltas: 100% (2/2), completed with 2 local objects.

To https://github.com/kotukhov/cs-lab02

cf26fd3..bd819c8 master -> master

1. Перейдем в каталог алиса и выполним загрузку изменениий

user@hp MINGW64 ~/Desktop/lab03/bob/project/lab02 (master)

$ cd ..

user@hp MINGW64 ~/Desktop/lab03/bob/project (master)

$ cd ..

user@hp MINGW64 ~/Desktop/lab03/bob

$ cd ..

user@hp MINGW64 ~/Desktop/lab03

$ cd alice

user@hp MINGW64 ~/Desktop/lab03/alice

$ cd project

user@hp MINGW64 ~/Desktop/lab03/alice/project (master)

$ cd lab02

user@hp MINGW64 ~/Desktop/lab03/alice/project/lab02 (master)

$ git fetch

remote: Enumerating objects: 7, done.

remote: Counting objects: 100% (7/7), done.

remote: Compressing objects: 100% (1/1), done.

remote: Total 4 (delta 2), reused 4 (delta 2), pack-reused 0

Unpacking objects: 100% (4/4), 368 bytes | 3.00 KiB/s, done.

From https://github.com/kotukhov/cs-lab02

cf26fd3..bd819c8 master -> origin/master

1. Посмотрим историю всех веток

user@hp MINGW64 ~/Desktop/lab03/alice/project/lab02 (master)

$ git log --oneline --decorate --all --graph

\* bd819c8 (origin/master) code: произведение чисел

\* cf26fd3 (HEAD -> master) code: gitignore

\* 630640d code: разность чисел

\* 6676571 code: сумма чисел

\* 6dfa598 vvod chisel

\* 7bd9a10 build

\* 21012d4 code: заготовка программы

Ветка мастер отстает на один компонент от ветки origin/master

1. Продвинем ветку master к скачанной версии

user@hp MINGW64 ~/Desktop/lab03/alice/project/lab02 (master)

$ git pull --ff-only

Updating cf26fd3..bd819c8

Fast-forward

lab02/main.cpp | 1 +

1 file changed, 1 insertion(+)

1. От имени алисы добавим печать деления, сделаем коммит, отправим на Github, подгрузим на машине боба

user@hp MINGW64 ~/Desktop/lab03/alice/project/lab02 (master)

$ git add main.cpp

user@hp MINGW64 ~/Desktop/lab03/alice/project/lab02 (master)

$ git commit -m 'code: деление чисел'

[master 4f528e3] code: деление чисел

1 file changed, 1 insertion(+)

user@hp MINGW64 ~/Desktop/lab03/alice/project/lab02 (master)

$ git push

Enumerating objects: 7, done.

Counting objects: 100% (7/7), done.

Delta compression using up to 4 threads

Compressing objects: 100% (3/3), done.

Writing objects: 100% (4/4), 398 bytes | 398.00 KiB/s, done.

Total 4 (delta 2), reused 0 (delta 0), pack-reused 0

remote: Resolving deltas: 100% (2/2), completed with 2 local objects.

To https://github.com/kotukhov/cs-lab02.git

bd819c8..4f528e3 master -> master

user@hp MINGW64 ~/Desktop/lab03/alice/project/lab02 (master)

$ cd ..

user@hp MINGW64 ~/Desktop/lab03/alice/project (master)

$ cd ..

user@hp MINGW64 ~/Desktop/lab03/alice

$ cd ..

user@hp MINGW64 ~/Desktop/lab03

$ cd bob

user@hp MINGW64 ~/Desktop/lab03/bob

$ cd project

user@hp MINGW64 ~/Desktop/lab03/bob/project (master)

$ cd lab02

user@hp MINGW64 ~/Desktop/lab03/bob/project/lab02 (master)

$ git fetch

remote: Enumerating objects: 7, done.

remote: Counting objects: 100% (7/7), done.

remote: Compressing objects: 100% (1/1), done.

remote: Total 4 (delta 2), reused 4 (delta 2), pack-reused 0

Unpacking objects: 100% (4/4), 378 bytes | 2.00 KiB/s, done.

From https://github.com/kotukhov/cs-lab02

bd819c8..4f528e3 master -> origin/master

user@hp MINGW64 ~/Desktop/lab03/bob/project/lab02 (master)

$ git pull --ff-only

Updating bd819c8..4f528e3

Fast-forward

lab02/main.cpp | 1 +

1 file changed, 1 insertion(+)

1. На машине алисы добавляем печать максимума, делаем коммит и отправляем на GitHub

user@hp MINGW64 ~/Desktop/lab03/alice/project/lab02 (master)

$ git add main.cpp

user@hp MINGW64 ~/Desktop/lab03/alice/project/lab02 (master)

$ git commit -m 'code: нахождение максимума'

[master 50501c2] code: нахождение максимума

1 file changed, 4 insertions(+)

user@hp MINGW64 ~/Desktop/lab03/alice/project/lab02 (master)

$ git push

Enumerating objects: 7, done.

Counting objects: 100% (7/7), done.

Delta compression using up to 4 threads

Compressing objects: 100% (3/3), done.

Writing objects: 100% (4/4), 428 bytes | 428.00 KiB/s, done.

Total 4 (delta 2), reused 0 (delta 0), pack-reused 0

remote: Resolving deltas: 100% (2/2), completed with 2 local objects.

To https://github.com/kotukhov/cs-lab02.git

4f528e3..50501c2 master -> master

1. На машине боба добавляем печать минимума и отправляем на GitHub

user@hp MINGW64 ~/Desktop/lab03/alice/project/lab02 (master)

$ cd ..

user@hp MINGW64 ~/Desktop/lab03/alice/project (master)

$ cd ..

user@hp MINGW64 ~/Desktop/lab03/alice

$ cd ..

user@hp MINGW64 ~/Desktop/lab03

$ cd bob

user@hp MINGW64 ~/Desktop/lab03/bob

$ cd project

user@hp MINGW64 ~/Desktop/lab03/bob/project (master)

$ cd lab02

user@hp MINGW64 ~/Desktop/lab03/bob/project/lab02 (master)

$ git add main.cpp

user@hp MINGW64 ~/Desktop/lab03/bob/project/lab02 (master)

$ git commit -m 'code: нахождение минимума'

[master 7de9e05] code: нахождение минимума

1 file changed, 4 insertions(+)

user@hp MINGW64 ~/Desktop/lab03/bob/project/lab02 (master)

$ git push

To https://github.com/kotukhov/cs-lab02

! [rejected] master -> master (fetch first)

error: failed to push some refs to 'https://github.com/kotukhov/cs-lab02'

hint: Updates were rejected because the remote contains work that you do

hint: not have locally. This is usually caused by another repository pushing

hint: to the same ref. You may want to first integrate the remote changes

hint: (e.g., 'git pull ...') before pushing again.

hint: See the 'Note about fast-forwards' in 'git push --help' for details.

1. **) Появился конфликт т.к коммит боба основан не на последнем коммите, подгружаем все на боба**

user@hp MINGW64 ~/Desktop/lab03/bob/project/lab02 (master)

$ git pull

remote: Enumerating objects: 18, done.

remote: Counting objects: 100% (18/18), done.

remote: Compressing objects: 100% (3/3), done.

remote: Total 12 (delta 6), reused 12 (delta 6), pack-reused 0

Unpacking objects: 100% (12/12), 1.02 KiB | 1024 bytes/s, done.

From https://github.com/kotukhov/cs-lab02

50501c2..0846189 master -> origin/master

Auto-merging lab02/main.cpp

CONFLICT (content): Merge conflict in lab02/main.cpp

Automatic merge failed; fix conflicts and then commit the result.

1. Получаем историю веток

user@hp MINGW64 ~/Desktop/lab03/bob/project/lab02 (master|MERGING)

$ git log --decorate --oneline

e1e22b3 (HEAD -> master) code: нахождение максимума

50501c2 code: нахождение максимума

4f528e3 code: деление чисел

bd819c8 code: произведение чисел

cf26fd3 code: gitignore

630640d code: разность чисел

6676571 code: сумма чисел

6dfa598 vvod chisel

7bd9a10 build

21012d4 code: заготовка программы

user@hp MINGW64 ~/Desktop/lab03/alice/project/lab02 (master)

$ git log --decorate --oneline

0846189 (HEAD -> master, origin/master, origin/HEAD) code: Нахождение минимума

3adf365 Merge branch 'master' of https://github.com/kotukhov/cs-lab02

7de9e05 code: нахождение минимума

50501c2 code: нахождение максимума

4f528e3 code: деление чисел

bd819c8 code: произведение чисел

cf26fd3 code: gitignore

630640d code: разность чисел

6676571 code: сумма чисел

6dfa598 vvod chisel

7bd9a10 build

21012d4 code: заготовка программы

1. При попытке переместить коммит боба выше коммита алисы всплывает ошибка

user@hp MINGW64 ~/Desktop/lab03/bob/project/lab02 (master|MERGING)

$ git rebase origin/master

lab02/main.cpp: needs merge

error: cannot rebase: You have unstaged changes.

error: additionally, your index contains uncommitted changes.

error: Please commit or stash them.

Необходимо исправить конфликт в коде Боба, получаем

user@hp MINGW64 ~/Desktop/lab03/alice/project/lab02 (master)

$ git log --oneline --decorate --graph

\* 0846189 (HEAD -> master) code: нахождение максимума

|\

| \* 50501c2 code: деление чисел

\* | 7de9e05 code: деление чисел

|/

\* bd819c8 code: произведение чисел

\* cf26fd3 code: gitignore

\* 630640d code: разность чисел

\* 6676571 code: сумма чисел

\* 6dfa598 vvod chisel

\* 7bd9a10 build

\* 21012d4 code: заготовка программы

user@hp MINGW64 ~/Desktop/lab03/bob/project/lab02 (master|MERGING)

$ git log --oneline --decorate --graph

\* e1e22b3 (HEAD -> master) code: исправленная боба

\* 50501c2 code: нахождение минимума

\* 4f528e3 code: деление чисел

\* bd819c8 code: произведение чисел

\* cf26fd3 code: gitignore

\* 630640d code: разность чисел

\* 6676571 code: сумма чисел

\* 6dfa598 vvod chisel

\* 7bd9a10 build

\* 21012d4 code: заготовка программы

1. Подгружаем за боба исправленную версию

user@hp MINGW64 ~/Desktop/lab03/bob/project/lab02 (master|MERGING)

$ git add main.cpp

user@hp MINGW64 ~/Desktop/lab03/bob/project/lab02 (master|MERGING)

$ git commit -m 'code: a'

[master b3614f7] code: a

user@hp MINGW64 ~/Desktop/lab03/bob/project/lab02 (master)

$ git push

Enumerating objects: 14, done.

Counting objects: 100% (14/14), done.

Delta compression using up to 4 threads

Compressing objects: 100% (6/6), done.

Writing objects: 100% (8/8), 732 bytes | 366.00 KiB/s, done.

Total 8 (delta 4), reused 0 (delta 0), pack-reused 0

remote: Resolving deltas: 100% (4/4), completed with 2 local objects.

To https://github.com/kotukhov/cs-lab02.git

0846189..b3614f7 master -> master

1. Cоздаем на алисе ветку double и перключаемся на нее

user@hp MINGW64 ~/Desktop/lab03/alice/project/lab02 (master)

$ git branch double

user@hp MINGW64 ~/Desktop/lab03/alice/project/lab02 (master)

$ git checkout double

Switched to branch 'double'

1. Заменим тип переменных a и b на double и сделаем коммит

user@hp MINGW64 ~/Desktop/lab03/alice/project/lab02 (double)

$ git add main.cpp

user@hp MINGW64 ~/Desktop/lab03/alice/project/lab02 (double)

$ git commit -m 'code: double'

[double 7f60062] code: double

1 file changed, 1 insertion(+), 1 deletion(-)

1. Сливаем ветку double в мастер

user@hp MINGW64 ~/Desktop/lab03/alice/project/lab02 (double)

$ git checkout master

Switched to branch 'master'

Your branch is up to date with 'origin/master'.

user@hp MINGW64 ~/Desktop/lab03/alice/project/lab02 (master)

$ git merge double

Updating b3614f7..7f60062

Fast-forward

lab02/main.cpp | 2 +-

1 file changed, 1 insertion(+), 1 deletion(-)

1. Отчет всех веток репозитария

user@hp MINGW64 ~/Desktop/lab03/alice/project/lab02 (master)

$ git log --oneline --decorate --all --graph

\* 2d23b38 (HEAD -> master, origin/master) code:.gitignore

\* 7f60062 (double) code: double

\* b3614f7 code: a

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| \* 0846189 code: Нахождение минимума

| \* 3adf365 Merge branch 'master' of https://github.com/kotukhov/cs-lab02

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| \* | 7de9e05 code: нахождение минимума

\* | | e1e22b3 code: нахождение максимума

| |/

|/|

\* | 50501c2 code: нахождение максимума

|/

\* 4f528e3 code: деление чисел

\* bd819c8 code: произведение чисел

\* cf26fd3 code: gitignore

\* 630640d code: разность чисел

\* 6676571 code: сумма чисел

\* 6dfa598 vvod chisel

\* 7bd9a10 build

\* 21012d4 code: заготовка программы

user@hp MINGW64 ~/Desktop/lab03/bob/project/lab02 (master)

$ git log --oneline --decorate --all --graph

\* 0846189 (HEAD -> master, origin/master, origin/HEAD) code: Нахождение минимума

\* 3adf365 Merge branch 'master' of https://github.com/kotukhov/cs-lab02

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| \* 50501c2 code: нахождение максимума

\* | 7de9e05 code: нахождение минимума

|/

\* 4f528e3 code: деление чисел

\* bd819c8 code: произведение чисел

\* cf26fd3 code: gitignore

\* 630640d code: разность чисел

\* 6676571 code: сумма чисел

\* 6dfa598 vvod chisel

\* 7bd9a10 build

\* 21012d4 code: заготовка программы