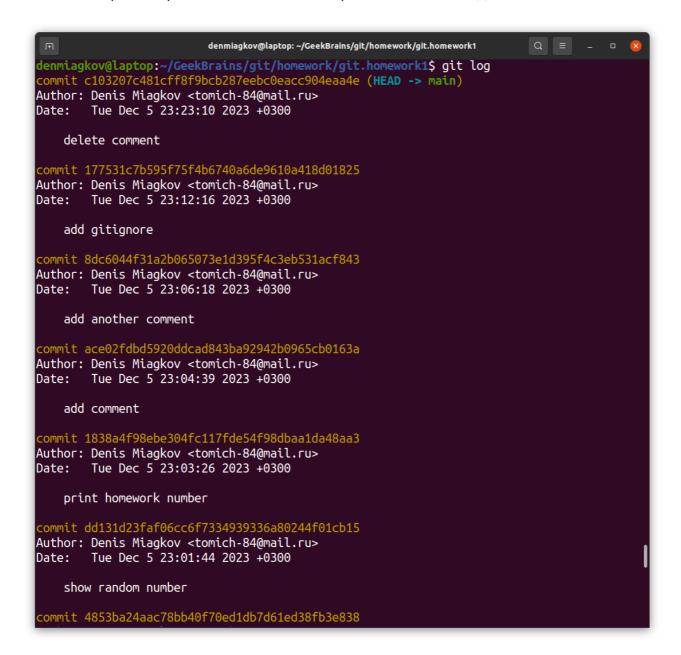
1. Просмотрите историю коммитов в своём проекте и выберите три случайных коммита. Просмотрите изменения, которые были в них сделаны.



```
denmiagkov@laptop: ~/GeekBrains/git/homework/git.homework1
                                                                      Q ≡
                                                                                            ×
denmiagkov@laptop:~/GeekBrains/git/homework/git.homework1$ git diff 8dc6
diff --git a/.gitignore b/.gitignore
new file mode 100644
index 0000000..41a8597
--- /dev/null
+++ b/.gitignore
diff --git a/Main.java b/Main.java
index 06df47b..b08e742 100644
--- a/Main.java
+++ b/Main.java
00 - 6,8 + 6,6 00 public class Main {
         System.out.println("This is homework 2");
         //this is another comment
denmiagkov@laptop:~/GeekBrains/git/homework/git.homework1$ git diff 1838 8dc6
diff --git a/Main.java b/Main.java
index e407fa6..06df47b 100644
--- a/Main.java
+++ b/Main.java
   -3,6 +3,11 @@ package src.homework1;
 public class Main {
     public static void main(String[] args) {
         System.out.println(Math.random());
         System.out.println("This is homework 2");
     }
denmiagkov@laptop:~/GeekBrains/git/homework/git.homework1$ git diff dd13 1838
diff --git a/Main.java b/Main.java
index c051c05..e407fa6 100644
--- a/Main.java
+++ b/Main.java
   -3,5 +3,6 @@ package src.homework1;
 public class Main {
     public static void main(String[] args) {
         System.out.println(Math.random());
denmiagkov@laptop:~/GeekBrains/git/homework/git.homework1$
```

2. Верните эти изменения командой git revert последовательно, чтобы в итоге получилось тоже три коммита.

```
denmiagkov@laptop: ~/GeekBrains/git/homework/git.homework1
                                                                       Q
denmiagkov@laptop:~/GeekBrains/git/homework/git.homework1$ git revert 8dc6
Auto-merging Main.java
CONFLICT (content): Merge conflict in Main.java
error: could not revert 8dc6044... add another comment
hint: after resolving the conflicts, mark the corrected paths hint: with 'git add <paths>' or 'git rm <paths>' hint: and commit the result with 'git commit'
denmiagkov@laptop:~/GeekBrains/git/homework/git.homework1$ cat Main.java
package src.homework1;
public class Main {
    public static void main(String[] args) {
        System.out.println(Math.random());
        System.out.println("This is homework 2");
<<<<< HEAD
        //this is another comment
_____
        //this is just a comment
>>>>> parent of 8dc6044... add another comment
    }
denmiagkov@laptop:~/GeekBrains/git/homework/git.homework1$ nano Main.java
Use "fg" to return to nano.
[1]+ Stopped
                               nano Main.java
denmiagkov@laptop:~/GeekBrains/git/homework/git.homework1$ nano Main.java
denmiagkov@laptop:~/GeekBrains/git/homework/git.homework1$ nano Main.java
denmiagkov@laptop:~/GeekBrains/git/homework/git.homework1$ git status
On branch main
You are currently reverting commit 8dc6044.
  (fix conflicts and run "git revert --continue")
  (use "git revert --skip" to skip this patch)
  (use "git revert --abort" to cancel the revert operation)
Unmerged paths:
  (use "git restore --staged <file>..." to unstage)
  (use "git add <file>..." to mark resolution)
no changes added to commit (use "git add" and/or "git commit -a")
denmiagkov@laptop:~/GeekBrains/git/homework/git.homework1$ git commit -am "commit 8dc6 r
everted"
[main 0b80405] commit 8dc6 reverted
1 file changed, 1 insertion(+), 1 deletion(-)
denmiagkov@laptop:~/GeekBrains/git/homework/git.homework1$
```

```
|enmiagkov@laptop:~/GeekBrains/git/homework/git.homework1$                   git revert 1838
Auto-merging Main.java
CONFLICT (content): Merge conflict in Main.java
error: could not revert 1838a4f... print homework number
hint: after resolving the conflicts, mark the corrected paths hint: with 'git add <paths>' or 'git rm <paths>' hint: and commit the result with 'git commit'
denmiagkov@laptop:~/GeekBrains/git/homework/git.homework1$ cat Main.java
package src.homework1;
public class Main {
    public static void main(String[] args) {
        System.out.println(Math.random());
<<<<< HEAD
         System.out.println("This is homework 2");
         //this is just a comment
____
>>>>> parent of 1838a4f... print homework number
denmiagkov@laptop:~/GeekBrains/git/homework/git.homework1$ nano Main.java
denmiagkov@laptop:~/GeekBrains/git/homework/git.homework1$ git commit -am "commit 1838 r
everted'
[main cf598e4] commit 1838 reverted
1 file changed, 2 deletions(-)
denmiagkov@laptop:~/GeekBrains/git/homework/git.homework1$
```

```
denmiagkov@laptop:~/GeekBrains/git/homework/git.homework1$ git revert dd13
Auto-merging Main.java
CONFLICT (content): Merge conflict in Main.java
error: could not revert dd131d2... show random number
hint: after resolving the conflicts, mark the corrected paths hint: with 'git add <paths>' or 'git rm <paths>' hint: and commit the result with 'git commit'
denmiagkov@laptop:~/GeekBrains/git/homework/git.homework1$ cat Main.java
package src.homework1;
public class Main {
<<<<< HEAD
     public static void main(String[] args) {
          System.out.println(Math.random());
         System.out.println("This is homework 2");
======
>>>>> parent of dd131d2... show random number
denmiagkov@laptop:~/GeekBrains/git/homework/git.homework1$ nano Main.java
denmiagkov@laptop:~/GeekBrains/git/homework/git.homework1$ git status
On branch main
You are currently reverting commit dd131d2.
 (fix conflicts and run "git revert --continue")
(use "git revert --skip" to skip this patch)
(use "git revert --abort" to cancel the revert operation)
Unmerged paths:
  (use "git restore --staged <file>..." to unstage)
(use "git add <file>..." to mark resolution)
no changes added to commit (use "git add" and/or "git commit -a")
denmiagkov@laptop:~/GeekBrains/git/homework/git.homework1$ git commit -am "commit dd13 r
everted"
[main 711c30d] commit dd13 reverted
1 file changed, 4 deletions(-)
denmiagkov@laptop:~/GeekBrains/git/homework/git.homework1$
```

3. Попробуйте отменить эти три коммита:

* последний — командами git reset --soft и git restore; denmiagkov@laptop:~/GeekBrains/git/homework/git.homework1\$ git log 25e927e59a91 (**HEAD ->** main) Author: Denis Miagkov <tomich-84@mail.ru> Date: Tue Dec 5 23:48:16 2023 +0300 commit dd13 reverted commit cf598e4f672738e8c7f440b86fa2ce91147919ee Author: Denis Miagkov <tomich-84@mail.ru> Date: Tue Dec 5 23:44:49 2023 +0300 * commit 1838 reverted Author: Denis Miagkov <tomich-84@mail.ru> Date: Tue Dec 5 23:38:39 2023 +0300 commit 8dc6 reverted commit c103207c481cff8f9bcb287eebc0eacc904eaa4e Author: Denis Miagkov <tomich-84@mail.ru> Date: Tue Dec 5 23:23:10 2023 +0300 delete comment

```
denmiagkov@laptop:~/GeekBrains/git/homework/git.homework1$ git reset --soft
denmiagkov@laptop:~/GeekBrains/git/homework/git.homework1$ git status
On branch main
nothing to commit, working tree clean
denmiagkov@laptop:~/GeekBrains/git/homework/git.homework1$ git reset --soft cf59
denmiagkov@laptop:~/GeekBrains/git/homework/git.homework1$ git status
On branch main
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
       modified:
denmiagkov@laptop:~/GeekBrains/git/homework/git.homework1$ git log
commit cf598e4f672738e8c7f440b86fa2ce91147919ee (HEAD -> main)
Author: Denis Miagkov <tomich-84@mail.ru>
Date: Tue Dec 5 23:44:49 2023 +0300
    commit 1838 reverted
commit 0b80405954058cac82fc93cf3408b52466d8309c
Author: Denis Miagkov <tomich-84@mail.ru>
Date:
       Tue Dec 5 23:38:39 2023 +0300
   commit 8dc6 reverted
```

```
denmiagkov@laptop:~/GeekBrains/git/homework/git.homework1$ git restore
fatal: you must specify path(s) to restore
denmiagkov@laptop:~/GeekBrains/git/homework/git.homework1$ git restore Main.java
denmiagkov@laptop:~/GeekBrains/git/homework/git.homework1$ git status
On branch main
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        modified:
                   Main.java
denmiagkov@laptop:~/GeekBrains/git/homework/git.homework1$ git restore --staged Main.jav
denmiagkov@laptop:~/GeekBrains/git/homework/git.homework1$ git status
On branch main
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)
no changes added to commit (use "git add" and/or "git commit -a")
denmiagkov@laptop:~/GeekBrains/git/homework/git.homework1$ git restore Main.java
denmiagkov@laptop:~/GeekBrains/git/homework/git.homework1$ git status
On branch main
nothing to commit, working tree clean
denmiagkov@laptop:~/GeekBrains/git/homework/git.homework1$ cat Main.java
package src.homework1;
public class Main {
    public static void main(String[] args) {
        System.out.println(Math.random());
        System.out.println("This is homework 2");
    }
denmiagkov@laptop:~/GeekBrains/git/homework/git.homework1$
                                                              последующие коммиты, сохраня
```

^{*}предпоследний — командой git reset --mixed и git restore;

```
denmiagkov@laptop:~/GeekBrains/git/homework/git.homework1$ git reset --mixed 0b80
Unstaged changes after reset:
        Main.java
denmiagkov@laptop:~/GeekBrains/git/homework/git.homework1$ git status
On branch main
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)
no changes added to commit (use "git add" and/or "git commit -a")
denmiagkov@laptop:~/GeekBrains/git/homework/git.homework1$ git diff
diff --git a/Main.java b/Main.java
index c44a327..baa4c1f 100644
--- a/Main.java
+++ b/Main.java
00 -5,7 +5,5 00 public class Main {
         System.out.println(Math.random());
         System.out.println("This is homework 2");
     }
 }
denmiagkov@laptop:~/GeekBrains/git/homework/git.homework1$ git restore Main.java
denmiagkov@laptop:~/GeekBrains/git/homework/git.homework1$ git status
On branch main
nothing to commit, working tree clean
```

* первый — командой git reset —hard.

```
denmiagkov@laptop:~/GeekBrains/git/homework/git.homework1$ git reset --hard HEAD^
HEAD is now at c103207 delete comment
denmiagkov@laptop:~/GeekBrains/git/homework/git.homework1$ git log
commit c103207c481cff8f9bcb287eebc0eacc904eaa4e (HEAD -> main)
Author: Denis Miagkov <tomich-84@mail.ru>
Date: Tue Dec 5 23:23:10 2023 +0300

delete comment
```