

МИНИСТЕРСТВО ОБРАЗОВАНИЯ И НАУКИ РФ

Федеральное государственное автономное
образовательное учреждение высшего образования
“Национальный исследовательский университет ИТМО”

**ФАКУЛЬТЕТ ПРОГРАММНОЙ ИНЖЕНЕРИИ
и КОМПЬЮТЕРНОЙ ТЕХНИКИ**

ЛАБОРАТОРНАЯ РАБОТА №2

по дисциплине
“МЕТОДЫ И СРЕДСТВА ПРОГРАММНОЙ ИНЖЕНЕРИИ”

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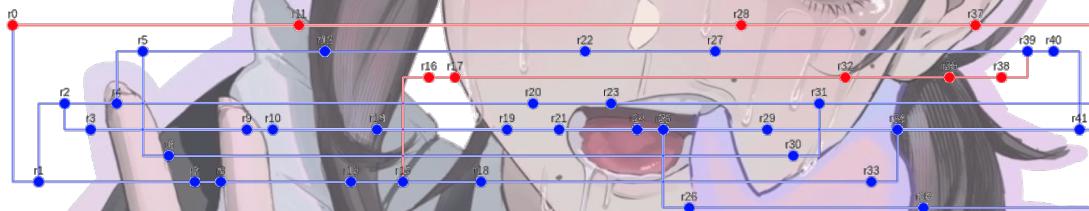
1 Задание:

Сконфигурировать в своём домашнем каталоге репозитории svn и git и загрузить в них начальную ревизию файлов с исходными кодами (в соответствии с выданным вариантом).

Воспроизвести последовательность команд для систем контроля версий svn и git, осуществляющих операции над исходным кодом, приведённые на блок-схеме.

При составлении последовательности команд необходимо учитывать следующие условия:

- Цвет элементов схемы указывает на пользователя, совершившего действие (красный - первый, синий - второй).
- Цифры над узлами - номер ревизии. Ревизии создаются последовательно.
- Необходимо разрешать конфликты между версиями, если они возникают.



2 SVN:

2.1 Конфигурация репозитория:

```
svnadmin create repo
cd repo
svn mkdir -m "create structure" file:///home/studs/s336759/repo/trunk file:///home/studs/s336759/repo/branches file:///home/studs/s336759/repo/tags --username="DoraGotova"
svn checkout file:///home/studs/s336759/repo/trunk workspace
cd workspace
```

2.2 Список команд:

```
# r0
mv -f ~/src/commit0/* .
svn add *
svn commit -m "commit r0" --username "DoraGotova"

# r1
svn copy file:///home/studs/s336759/repo/trunk file:///home/studs/s336759/repo/branches/fork_from_r0 -m "forked from r0" --username="DEAD_INSIDE_PSYCHO_GHOUL_KANEKI_KEN_GENEI_RYODAN_4_1000-7"
svn switch file:///home/studs/s336759/repo/branches/fork_from_r0
mv -f ~/src/commit1/* .
svn add *
svn commit -m "commit r1" --username="DEAD_INSIDE_PSYCHOGHOUL_KANEKI_KEN_GENEI_RYODAN_4_1000-7"

# r2
svn copy file:///home/studs/s336759/repo/branches/fork_from_r0 file:///home/studs/s336759/repo/branches/fork_from_r1 -m "forked from r1" --username="DEAD_INSIDE_PSYCHOGHOUL_KANEKI_KEN_GENEI_RYODAN_4_1000-7"
svn switch file:///home/studs/s336759/repo/branches/fork_from_r1
mv -f ~/src/commit2/* .
svn add *
svn commit -m "commit r2" --username="DEAD_INSIDE_PSYCHOGHOUL_KANEKI_KEN_GENEI_RYODAN_4_1000-7"

# r3
svn copy file:///home/studs/s336759/repo/branches/fork_from_r1 file:///home/studs/s336759/repo/branches/fork_from_r2 -m "forked from r2" --username="DEAD_INSIDE_PSYCHOGHOUL_KANEKI_KEN_GENEI_RYODAN_4_1000-7"
svn switch file:///home/studs/s336759/repo/branches/fork_from_r2
mv -f ~/src/commit3/* .
svn add *
svn commit -m "commit r3" --username="DEAD_INSIDE_PSYCHOGHOUL_KANEKI_KEN_GENEI_RYODAN_4_1000-7"

# r4
svn switch file:///home/studs/s336759/repo/branches/fork_from_r1
mv -f ~/src/commit4/* .
svn add *
svn commit -m "commit r4" --username="DEAD_INSIDE_PSYCHOGHOUL_KANEKI_KEN_GENEI_RYODAN_4_1000-7"
```

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```
# r5
svn copy file:///home/studs/s336759/repo/branches/fork_from_r1 file:///home/studs/s336759/repo/branches/fork_from_r4 -m "forked from r4" --username="DEAD_INSIDE_PSYCHOBOUL_KANEKI_KEN_GENEI_RYODAN_4_1000-7"
svn switch file:///home/studs/s336759/repo/branches/fork_from_r4
mv -f ~/src/commit5/* ./
svn add *
svn commit -m "commit r5" --username="DEAD_INSIDE_PSYCHOBOUL_KANEKI_KEN_GENEI_RYODAN_4_1000-7"

# r6
svn copy file:///home/studs/s336759/repo/branches/fork_from_r4 file:///home/studs/s336759/repo/branches/fork_from_r5 -m "forked from r5" --username="DEAD_INSIDE_PSYCHOBOUL_KANEKI_KEN_GENEI_RYODAN_4_1000-7"
svn switch file:///home/studs/s336759/repo/branches/fork_from_r5
mv -f ~/src/commit6/* ./
svn add *
svn commit -m "commit r6" --username="DEAD_INSIDE_PSYCHOBOUL_KANEKI_KEN_GENEI_RYODAN_4_1000-7"

# r7
svn switch file:///home/studs/s336759/repo/branches/fork_from_r0
mv -f ~/src/commit7/* ./
svn add *
svn commit -m "commit r7" --username="DEAD_INSIDE_PSYCHOBOUL_KANEKI_KEN_GENEI_RYODAN_4_1000-7"

# r8
mv -f ~/src/commit8/* ./
svn add *
svn commit -m "commit r8" --username="DEAD_INSIDE_PSYCHOBOUL_KANEKI_KEN_GENEI_RYODAN_4_1000-7"

# r9
svn switch file:///home/studs/s336759/repo/branches/fork_from_r2
mv -f ~/src/commit9/* ./
svn add *
svn commit -m "commit r9" --username="DEAD_INSIDE_PSYCHOBOUL_KANEKI_KEN_GENEI_RYODAN_4_1000-7"

# r10
mv -f ~/src/commit10/* ./
svn add *
svn commit -m "commit r10" --username="DEAD_INSIDE_PSYCHOBOUL_KANEKI_KEN_GENEI_RYODAN_4_1000-7"

# r11
svn switch file:///home/studs/s336759/repo/trunk
mv -f ~/src/commit11/* ./
svn add *
svn commit -m "commit r11" --username="DoraGotova"

# r12
svn switch file:///home/studs/s336759/repo/branches/fork_from_r4
mv -f ~/src/commit12/* ./
svn add *
svn commit -m "commit r12" --username="DEAD_INSIDE_PSYCHOBOUL_KANEKI_KEN_GENEI_RYODAN_4_1000-7"

# r13
svn switch file:///home/studs/s336759/repo/branches/fork_from_r0
mv -f ~/src/commit13/* ./
svn add *
svn commit -m "commit r13" --username="DEAD_INSIDE_PSYCHOBOUL_KANEKI_KEN_GENEI_RYODAN_4_1000-7"

# r14
svn switch file:///home/studs/s336759/repo/branches/fork_from_r2
mv -f ~/src/commit14/* ./
svn add *
svn commit -m "commit r14" --username="DEAD_INSIDE_PSYCHOBOUL_KANEKI_KEN_GENEI_RYODAN_4_1000-7"

# r15
svn switch file:///home/studs/s336759/repo/branches/fork_from_r0
mv -f ~/src/commit15/* ./
svn add *
svn commit -m "commit r15" --username="DEAD_INSIDE_PSYCHOBOUL_KANEKI_KEN_GENEI_RYODAN_4_1000-7"

# r16
svn copy file:///home/studs/s336759/repo/branches/fork_from_r0 file:///home/studs/s336759/repo/branches/fork_from_r15 -m "forked from r15" --username="DoraGotova"
svn switch file:///home/studs/s336759/repo/branches/fork_from_r15
mv -f ~/src/commit16/* ./
svn add *
svn commit -m "commit r16" --username="DoraGotova"

# r17
mv -f ~/src/commit17/* ./
svn add *
svn commit -m "commit r17" --username="DoraGotova"

# r18
svn switch file:///home/studs/s336759/repo/branches/fork_from_r0
mv -f ~/src/commit18/* ./
svn add *
svn commit -m "commit r18" --username="DEAD_INSIDE_PSYCHOBOUL_KANEKI_KEN_GENEI_RYODAN_4_1000-7"

# r19
svn switch file:///home/studs/s336759/repo/branches/fork_from_r2
mv -f ~/src/commit19/* ./
svn add *
svn commit -m "commit r19" --username="DEAD_INSIDE_PSYCHOBOUL_KANEKI_KEN_GENEI_RYODAN_4_1000-7"

# r20
svn switch file:///home/studs/s336759/repo/branches/fork_from_r1
mv -f ~/src/commit20/* ./
svn add *
svn commit -m "commit r20" --username="DEAD_INSIDE_PSYCHOBOUL_KANEKI_KEN_GENEI_RYODAN_4_1000-7"
```

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```

# r21
svn switch file:///home/studs/s336759/repo/branches/fork_from_r2
mv -f ~/src/commit21/* ../
svn add *
svn commit -m "commit r21" --username="DEAD_INSIDE_PSYCHOHOUL_KANEKI_KEN_GENEI_RYODAN_4_1000-7"

# r22
svn switch file:///home/studs/s336759/repo/branches/fork_from_r4
mv -f ~/src/commit22/* ../
svn add *
svn commit -m "commit r22" --username="DEAD_INSIDE_PSYCHOHOUL_KANEKI_KEN_GENEI_RYODAN_4_1000-7"

# r23
svn switch file:///home/studs/s336759/repo/branches/fork_from_r1
mv -f ~/src/commit23/* ../
svn add *
svn commit -m "commit r23" --username="DEAD_INSIDE_PSYCHOHOUL_KANEKI_KEN_GENEI_RYODAN_4_1000-7"

# r24
svn switch file:///home/studs/s336759/repo/branches/fork_from_r2
mv -f ~/src/commit24/* ../
svn add *
svn commit -m "commit r24" --username="DEAD_INSIDE_PSYCHOHOUL_KANEKI_KEN_GENEI_RYODAN_4_1000-7"

# r25
mv -f ~/src/commit25/* ../
svn add *
svn commit -m "commit r25" --username="DEAD_INSIDE_PSYCHOHOUL_KANEKI_KEN_GENEI_RYODAN_4_1000-7"

# r26
svn copy file:///home/studs/s336759/repo/branches/fork_from_r2 file:///home/studs/s336759/repo/branches/fork_from_r25 -m "forked from r25" --username="DEAD_INSIDE_PSYCHOHOUL_KANEKI_KEN_GENEI_RYODAN_4_1000-7"
svn switch file:///home/studs/s336759/repo/branches/fork_from_r25
mv -f ~/src/commit26/* ../
svn add *
svn commit -m "commit r26" --username="DEAD_INSIDE_PSYCHOHOUL_KANEKI_KEN_GENEI_RYODAN_4_1000-7"

# r27
svn switch file:///home/studs/s336759/repo/branches/fork_from_r4
mv -f ~/src/commit27/* ../
svn add *
svn commit -m "commit r27" --username="DEAD_INSIDE_PSYCHOHOUL_KANEKI_KEN_GENEI_RYODAN_4_1000-7"

# r28
svn switch file:///home/studs/s336759/repo/trunk
mv -f ~/src/commit28/* ../
svn add *
svn commit -m "commit r28" --username="DoraGotova"

# r29
svn switch file:///home/studs/s336759/repo/branches/fork_from_r2
mv -f ~/src/commit29/* ../
svn add *
svn commit -m "commit r29" --username="DEAD_INSIDE_PSYCHOHOUL_KANEKI_KEN_GENEI_RYODAN_4_1000-7"

# r30
svn switch file:///home/studs/s336759/repo/branches/fork_from_r5
mv -f ~/src/commit30/* ../
svn add *
svn commit -m "commit r30" --username="DEAD_INSIDE_PSYCHOHOUL_KANEKI_KEN_GENEI_RYODAN_4_1000-7"

# r31
svn switch file:///home/studs/s336759/repo/branches/fork_from_r1
svn merge file:///home/studs/s336759/repo/branches/fork_from_r5 file:///home/studs/s336759/repo/branches/fork_from_r1 --username="DEAD_INSIDE_PSYCHOHOUL_KANEKI_KEN_GENEI_RYODAN_4_1000-7"
svn commit -m "merge r30 into r31" --username="DEAD_INSIDE_PSYCHOHOUL_KANEKI_KEN_GENEI_RYODAN_4_1000-7"
mv -f ~/src/commit31/* ../
svn add *
svn commit -m "commit r31" --username="DEAD_INSIDE_PSYCHOHOUL_KANEKI_KEN_GENEI_RYODAN_4_1000-7"

# r32
svn switch file:///home/studs/s336759/repo/branches/fork_from_r15
mv -f ~/src/commit32/* ../
svn add *
svn commit -m "commit r32" --username="DoraGotova"

# r33
svn switch file:///home/studs/s336759/repo/branches/fork_from_r0
mv -f ~/src/commit33/* ../
svn add *
svn commit -m "commit r33" --username="DEAD_INSIDE_PSYCHOHOUL_KANEKI_KEN_GENEI_RYODAN_4_1000-7"

# r34
svn switch file:///home/studs/s336759/repo/branches/fork_from_r2
svn merge file:///home/studs/s336759/repo/branches/fork_from_r0 file:///home/studs/s336759/repo/branches/fork_from_r2 --username="DEAD_INSIDE_PSYCHOHOUL_KANEKI_KEN_GENEI_RYODAN_4_1000-7"
mv -f ~/src/commit34/* ../
svn add *
svn commit -m "commit r34" --username="DEAD_INSIDE_PSYCHOHOUL_KANEKI_KEN_GENEI_RYODAN_4_1000-7"

# r35
svn switch file:///home/studs/s336759/repo/branches/fork_from_r25
mv -f ~/src/commit35/* ../
svn add *
svn commit -m "commit r35" --username="DEAD_INSIDE_PSYCHOHOUL_KANEKI_KEN_GENEI_RYODAN_4_1000-7"

```

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```
# r36
svn switch file:///home/studs/s336759/repo/branches/fork_from_r15
mv -f ~/src/commit36/* ../
svn add *
svn commit -m "commit r36" --username="DoraGotova"

# r37
svn switch file:///home/studs/s336759/repo/trunk
mv -f ~/src/commit37/* ../
svn add *
svn commit -m "commit r37" --username="DoraGotova"

# r38
svn switch file:///home/studs/s336759/repo/branches/fork_from_r15
mv -f ~/src/commit38/* ../
svn add *
svn commit -m "commit r38" --username="DoraGotova"

# r39 -conflict i
svn switch file:///home/studs/s336759/repo/branches/fork_from_r4
svn merge file:///home/studs/s336759/repo/branches/fork_from_r15 file:///home/studs/s336759/repo/branches/fork_from_r4 --username="DoraGotova"
svn commit -m "merge r38 into r39" --username="DoraGotova"
mv -f ~/src/commit39/* ../
svn add *
svn commit -m "commit r39" --username="DEAD_INSIDE_PSYCHOGHOUL_KANEKI_KEN_GENEI_RYODAN_4_1000-7"

# r40
mv -f ~/src/commit40/* ../
svn add *
svn commit -m "commit r40" --username="DEAD_INSIDE_PSYCHOGHOUL_KANEKI_KEN_GENEI_RYODAN_4_1000-7"

# r41 - 2 conflicts m,m
svn switch file:///home/studs/s336759/repo/branches/fork_from_r2
svn merge file:///home/studs/s336759/repo/branches/fork_from_r4 file:///home/studs/s336759/repo/branches/fork_from_r2 --username="DEAD_INSIDE_PSYCHOGHOUL_KANEKI_KEN_GENEI_RYODAN_4_1000-7"
svn commit -m "merge r40 into r41" --username="DEAD_INSIDE_PSYCHOGHOUL_KANEKI_KEN_GENEI_RYODAN_4_1000-7"
mv -f ~/src/commit41/* ../
svn add *
svn commit -m "commit r41" --username="DEAD_INSIDE_PSYCHOGHOUL_KANEKI_KEN_GENEI_RYODAN_4_1000-7"

# r42
svn switch file:///home/studs/s336759/repo/branches/fork_from_r1
mv -f ~/src/commit42/* ../
svn add *
svn commit -m "commit r42" --username="DEAD_INSIDE_PSYCHOGHOUL_KANEKI_KEN_GENEI_RYODAN_4_1000-7"

# r43 - 3 conflicts m,m,m
svn switch file:///home/studs/s336759/repo/branches/fork_from_r2
svn merge file:///home/studs/s336759/repo/branches/fork_from_r1 file:///home/studs/s336759/repo/branches/fork_from_r2 --username="DEAD_INSIDE_PSYCHOGHOUL_KANEKI_KEN_GENEI_RYODAN_4_1000-7"
svn commit -m "merge r42 into r43" --username="DEAD_INSIDE_PSYCHOGHOUL_KANEKI_KEN_GENEI_RYODAN_4_1000-7"
mv -f ~/src/commit43/* ../
svn add *
svn commit -m "commit r43" --username="DEAD_INSIDE_PSYCHOGHOUL_KANEKI_KEN_GENEI_RYODAN_4_1000-7"

# r44 -conflict i
svn switch file:///home/studs/s336759/repo/branches/fork_from_r25
svn merge file:///home/studs/s336759/repo/branches/fork_from_r2 file:///home/studs/s336759/repo/branches/fork_from_r25 --username="DEAD_INSIDE_PSYCHOGHOUL_KANEKI_KEN_GENEI_RYODAN_4_1000-7"
svn commit -m "merge r43 into r44" --username="DEAD_INSIDE_PSYCHOGHOUL_KANEKI_KEN_GENEI_RYODAN_4_1000-7"
mv -f ~/src/commit44/* ../
svn add *
svn commit -m "commit r44" --username="DEAD_INSIDE_PSYCHOGHOUL_KANEKI_KEN_GENEI_RYODAN_4_1000-7"

# r45 - 4 conflicts
svn switch file:///home/studs/s336759/repo/trunk
svn merge file:///home/studs/s336759/repo/branches/fork_from_r25 file:///home/studs/s336759/repo/trunk --username="DEAD_INSIDE_PSYCHOGHOUL_KANEKI_KEN_GENEI_RYODAN_4_1000-7"
svn commit -m "merge r44 into r45" --username="DEAD_INSIDE_PSYCHOGHOUL_KANEKI_KEN_GENEI_RYODAN_4_1000-7"
mv -f ~/src/commit45/* ../
svn add *
svn commit -m "commit r45" --username="DoraGotova"
```

я ебанутый.

3 GIT:

3.1 Конфигурация репозитория:

```
git init gitrepo  
cd gitrepo
```

3.2 Список команд:

```
# r0  
git config --global user.name "DoraGotova"  
git config --global user.email "DoraGotova@gmail.com"  
mv -f ~/src/commit0/* ./  
git add *  
git commit -m "commit r0"  
  
# r1  
git config --global user.name "maybemaybebaby"  
git config --global user.email "maybemaybebay@gmail.com"  
git checkout -b fork_from_r0  
mv -f ~/src/commit1/* ./  
git add *  
git commit -m "commit r1"  
  
# r2  
git checkout -b fork_from_r1  
mv -f ~/src/commit2/* ./  
git add *  
git commit -m "commit r2"  
  
# r3  
git checkout -b fork_from_r2  
mv -f ~/src/commit3/* ./  
git add *  
git commit -m "commit r3"  
  
# r4  
git checkout fork_from_r1  
mv -f ~/src/commit4/* ./  
git add &  
git commit -m "commit r4"  
  
# r5  
git checkout -b fork_from_r4  
mv -f ~/src/commit5/* ./  
git add *  
git commit -m "commit r5"  
  
# r6  
git checkout -b fork_from_r5  
mv -f ~/src/commit6/* ./  
git add *  
git commit -m "commit r6"  
  
# r7  
git checkout fork_from_r6  
mv -f ~/src/commit7/* ./  
git add *  
git commit -m "commit r7"  
  
# r8  
mv -f ~/src/commit8/* ./  
git add *  
git commit -m "commit r8"  
  
# r9  
git checkout fork_from_r7  
mv -f ~/src/commit9/* ./  
git add *  
git commit -m "commit r9"  
  
# r10  
mv -f ~/src/commit10/* ./  
git add *  
git commit -m "commit r10"  
  
# r11  
git config --global user.name "DoraGotova"  
git config --global user.email "DoraGotova@gmail.com"  
git checkout master  
mv -f ~/src/commit11/* ./  
git add *  
git commit -m "commit r11"  
  
# r12  
git config --global user.name "maybemaybebaby"  
git config --global user.email "maybemaybebay@gmail.com"  
git checkout fork_from_r4  
mv -f ~/src/commit12/* ./  
git add *  
git commit -m "commit r12"  
  
# r13  
git checkout fork_from_r0  
mv -f ~/src/commit13/* ./  
git add *  
git commit -m "commit r13"
```

я ебанутый.





```
# r30
git checkout fork_from_r5
mv -f ~/src/commit30/* ../
git add *
git commit -m "commit r30"

# r31
git checkout fork_from_r1
git merge fork_from_r5 -m "merge r30 into r31"
mv -f ~/src/commit31/* ../
git add *
git commit -m "commit r31"

# r32
git config --global user.name "DoraGotova"
git config --global user.email "DoraGotova@gmail.com"
git checkout fork_from_r15
mv -f ~/src/commit32/* ../
git add *
git commit -m "commit r32"

# r33
git config --global user.name "maybemaybebaby"
git config --global user.email "maybemaybebay@gmail.com"
git checkout fork_from_r0
mv -f ~/src/commit33/* ../
git add *
git commit -m "commit r33"

# r34
git checkout fork_from_r2
git merge fork_from_r0 -m "merge r33 into r34"
```

resolving conflicts...

```
git add *
git commit -m "merge r33 into r34"
mv -f ~/src/commit34/* ../
git add *
git commit -m "commit r34"

# r35
git checkout fork_from_r25
mv -f ~/src/commit35/* ../
git add *
git commit -m "commit r35"

# r36
git config --global user.name "DoraGotova"
git config --global user.email "DoraGotova@gmail.com"
git checkout fork_from_r15
mv -f ~/src/commit36/* ../
git add *
git commit -m "commit r36"

# r37
git checkout master
mv -f ~/src/commit37/* ../
git add *
git commit -m "commit r37"

# r38
git checkout fork_from_r15
mv -f ~/src/commit38/* ../
git add *
git commit -m "commit r38"

# r39 - conflict
git checkout fork_from_r4
git merge fork_from_r15 -m "merge r38 into r39"
```

resolving conflicts...

```
git add *
git commit -m "merge r38 into r39"
git config --global user.name "maybemaybebaby"
git config --global user.email "maybemaybebay@gmail.com"
mv -f ~/src/commit39/* ../
git add *
git commit -m "commit r39"

# r40
mv -f ~/src/commit40/* ../
git add *
git commit -m "commit r40"

# r41
git checkout fork_from_r2
git merge fork_from_r4 -m "merge r40 into r41"
```

я ебанутый.



resolving conflicts...

```
git add *
git commit -m "merge r40 into r41"
mv -f ~/src/commit41/* ./
git add *
git commit -m "commit r41"

# r42
git checkout fork_from_r1
mv -f ~/src/commit42/* ./
git add *
git commit -m "commit r42"

# r43
git checkout fork_from_r2
git merge fork_from_r1 -m "merge r42 into r43"
```

resolving conflicts...

```
git add *
git commit -m "merge r42 into r43"
mv -f ~/src/commit43/* ./
git add *
git commit -m "commit r43"

# r44
git checkout fork_from_r25
git merge fork_from_r2 -m "merge r43 into r44"
```

resolving conflicts...

```
git add *
git commit -m "merge r43 into r44"
mv -f ~/src/commit44/* ./
git add *
git commit -m "commit r44"

# r45
git checkout master
git merge fork_from_r25 -m "merge r44 into r45"
```

resolving conflicts...

```
git add *
git commit -m "merge r44 into r45"
git config --global user.name "DoraGotova"
git config --global user.email "DoraGotova@gmail.com"
mv -f ~/src/commit45/* ./
git add *
git commit -m "commit r45"
```

4 Выводы:

ахуенная лаба братанчик пасиба

я ебанутый.