ОТЧЕТ ПО ЛАБОРАТОРНОЙ РАБОТЕ №4

Выполнил студент группы КС-36: Золотухин А.А.

Ссылка на репозиторий: https://github.com/ CorgiPuppy/ administration-of-information-systems-labs

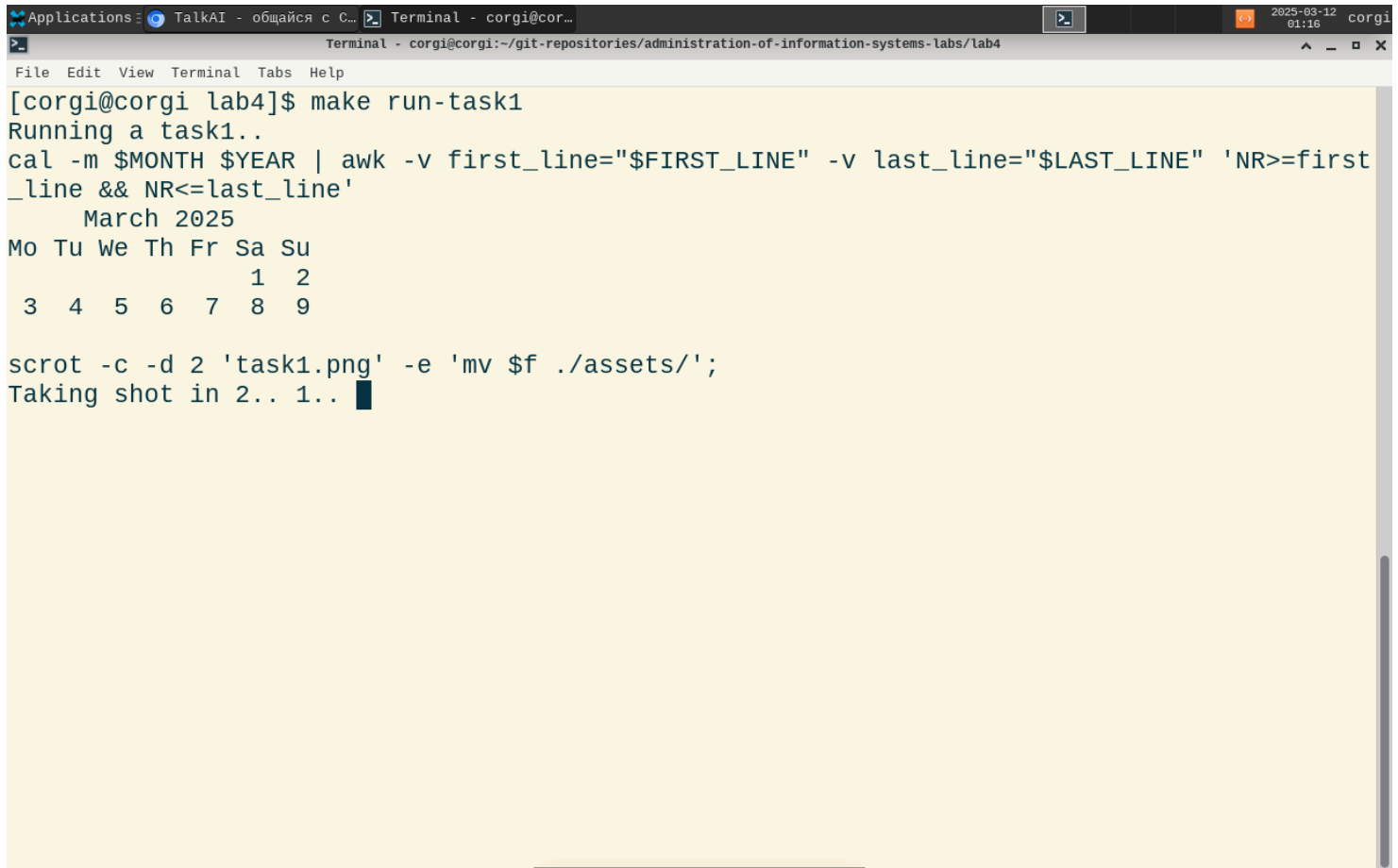Принял: Митричев Иван Игоревич

Дата сдачи: 12.03.25

Москва

2025

Оглавление

Описание и выполнение задачи

Задание 1

(Рис. 1)


```
[corgi@corgi lab4]$ make run-task1
Running a task1..
cal -m $MONTH $YEAR | awk -v first_line="$FIRST_LINE" -v last_line="$LAST_LINE" 'NR>=first
_line && NR<=last_line'
      March 2025
Mo Tu We Th Fr Sa Su
                1  2
 3  4  5  6  7  8  9

scrot -c -d 2 'task1.png' -e 'mv $f ./assets/';
Taking shot in 2.. 1..
```

Рис. 1: Задание 1.

Задание 2

(Рис. 2)

```
Terminal - corgi@corgi:~/git-repositories/administration-of-information-systems-labs/lab4

File  Edit  View  Terminal  Tabs  Help

[corgi@corgi lab4]$ make run-task2
Running a task2..
find $HOME -type f -mmin -60 -ls | awk '{printf "%s,%s,%s,%s\n", $8, $9, $10, $11}' > $OUTPUT_FILE

scrot -c -d 2 'task2.png' -e 'mv $f ./assets/';
Taking shot in 2.. 1.. █
```

Рис. 2: Задание 2.

Mar	12	02:31	/home/corgi/.vim/.netrwhist
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Mar	12	02:23	/home/corgi/.cache/chromium/Default/Code\
Mar	12	03:00	/home/corgi/.cache/chromium/Default/Code\
Mar	12	02:23	/home/corgi/.cache/chromium/Default/Code\
Mar	12	03:00	/home/corgi/.cache/chromium/Default/Code\
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Mar	12	03:06	/home/corgi/.cache/chromium/Default/Cache/Cache_Data/index-dir/the-real-index
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Mar	12	03:03	/home/corgi/.cache/chromium/Default/Cache/Cache_Data/e00ba5a4d0bb9b64_0
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Mar	12	03:00	/home/corgi/.cache/chromium/Default/Cache/Cache_Data/0ea692ae03c5c91a_0
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Mar	12	02:24	/home/corgi/.cache/chromium/Default/Cache/Cache_Data/ba140d0bb8b0efdc_0
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Mar	12	03:03	/home/corgi/.cache/chromium/Default/Cache/Cache_Data/06ce9c5d8e40681a_0
Mar	12	02:24	/home/corgi/.cache/chromium/Default/Cache/Cache_Data/5bd76c48a7150637_0
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Mar	12	02:23	/home/corgi/.cache/chromium/Default/Cache/Cache_Data/61400ff860f87b77_0
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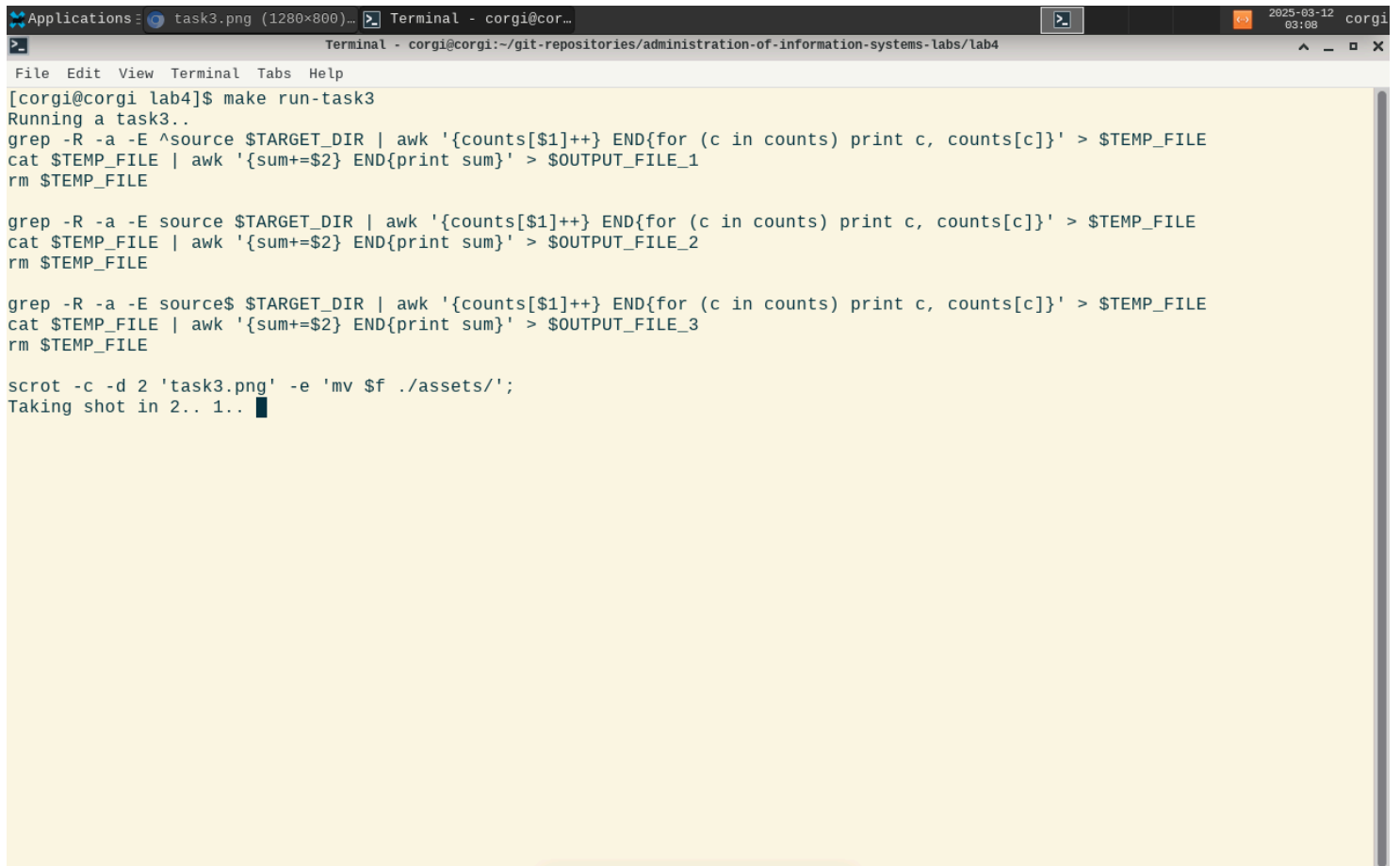|			
Mar	12	02:23	/home/corgi/.cache/chromium/Default/Cache/Cache_Data/83ad82e7e3951907_0
Mar	12	02:22	/home/corgi/.cache/chromium/Default/Cache/Cache_Data/f58f87349b720995_0
Mar	12	03:00	/home/corgi/.cache/chromium/Default/Cache/Cache_Data/af5d516cfefe4b85_0
Mar	12	02:23	/home/corgi/.cache/chromium/Default/Cache/Cache_Data/48f2ed4855943f39_0
Mar	12	02:23	/home/corgi/.cache/chromium/Default/Cache/Cache_Data/be07e7b828d7ab69_0
Mar	12	02:22	/home/corgi/.cache/chromium/Default/Cache/Cache_Data/6404156ba71428bb_0
Mar	12	03:08	/home/corgi/.cache/vim/swap/%home%corgi%git-repositories%administration-of-information-systems-labs%lab4%src%task2%main.sh.swp
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Mar	12	03:07	/home/corgi/.viminfo
Mar	12	02:31	/home/corgi/.lesshst
Mar	12	03:03	/home/corgi/.config/chromium/Safe\
Mar	12	03:03	/home/corgi/.config/chromium/Safe\
Mar	12	03:03	/home/corgi/.config/chromium/Safe\
Mar	12	03:03	/home/corgi/.config/chromium/Safe\
Mar	12	03:03	/home/corgi/.config/chromium/Safe\
Mar	12	03:03	/home/corgi/.config/chromium/Safe\
Mar	12	03:03	/home/corgi/.config/chromium/Safe\
Mar	12	03:03	/home/corgi/.config/chromium/Safe\
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Mar	12	03:03	/home/corgi/.config/chromium/Safe\
Mar	12	03:00	/home/corgi/.config/chromium/GraphiteDawnCache/index
Mar	12	03:07	/home/corgi/.config/chromium/GraphiteDawnCache/data_1
Mar	12	03:07	/home/corgi/.config/chromium/Crash\
Mar	12	03:02	/home/corgi/.config/chromium/segmentation_platform/ukm_db-wal
Mar	12	03:00	/home/corgi/.config/chromium/first_party_sets.db
Mar	12	03:01	/home/corgi/.config/chromium/CertificateRevocation/9608/manifest.fingerprint
Mar	12	03:01	/home/corgi/.config/chromium/CertificateRevocation/9608/manifest.json
Mar	12	03:01	/home/corgi/.config/chromium/CertificateRevocation/9608/LICENSE
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Mar	12	03:01	/home/corgi/.config/chromium/CertificateRevocation/9608/crl-set
Mar	12	03:01	/home/corgi/.config/chromium/component_crx_cache/jflookgnkcckhobaglndicnbbgbonegd_1.63868a769fa0a0d9b29403d397874e07c21258dc176528df388e09e
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Mar	12	03:00	/home/corgi/.config/chromium/Variations
Mar	12	03:01	/home/corgi/.config/chromium/SafetyTips/3065/manifest.fingerprint
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Mar	12	03:01	/home/corgi/.config/chromium/SafetyTips/3065/manifest.json
Mar	12	03:01	/home/corgi/.config/chromium/SafetyTips/3065/_metadata/verified_contents.json
Mar	12	03:00	/home/corgi/.config/chromium/first_party_sets.db-journal

Mar	12	03:07	/home/corgi/.config/chromium/DeferredBrowserMetrics/ BrowserMetrics-67D0D05B-5154.pma
Mar	12	03:00	/home/corgi/.config/chromium/WidevineCdm/latest-component-updated-widevine-cdm
Mar	12	03:00	/home/corgi/.config/chromium/Default/Web\
Mar	12	02:24	/home/corgi/.config/chromium/Default/Favicons-journal
Mar	12	03:00	/home/corgi/.config/chromium/Default/Session\
Mar	12	03:00	/home/corgi/.config/chromium/Default/Session\
Mar	12	03:00	/home/corgi/.config/chromium/Default/AutofillStrikeDatabase/LOG
Mar	12	03:08	/home/corgi/.config/chromium/Default/History-journal
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Mar	12	03:04	/home/corgi/.config/chromium/Default/passkey_enclave_state
Mar	12	03:00	/home/corgi/.config/chromium/Default/Download\
Mar	12	03:00	/home/corgi/.config/chromium/Default/Service\
Mar	12	03:00	/home/corgi/.config/chromium/Default/Service\
Mar	12	03:00	/home/corgi/.config/chromium/Default/Web\
Mar	12	03:00	/home/corgi/.config/chromium/Default/Visited\
Mar	12	03:00	/home/corgi/.config/chromium/Default/Shortcuts
Mar	12	03:00	/home/corgi/.config/chromium/Default/commerce_subscription_db/LOG
Mar	12	03:00	/home/corgi/.config/chromium/Default/BrowsingTopicsState
Mar	12	03:00	/home/corgi/.config/chromium/Default/optimization_guide_hint_cache_store/LOG
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Mar	12	03:01	/home/corgi/.config/chromium/Default/Network\
Mar	12	03:08	/home/corgi/.config/chromium/Default/Cookies-journal
Mar	12	03:00	/home/corgi/.config/chromium/Default/TransportSecurity
Mar	12	03:00	/home/corgi/.config/chromium/Default/PersistentOriginTrials/LOG
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Mar	12	02:24	/home/corgi/.config/chromium/Default/Local\
Mar	12	02:24	/home/corgi/.config/chromium/Default/Local\
Mar	12	03:01	/home/corgi/.config/chromium/Default/Local\
Mar	12	03:08	/home/corgi/.config/chromium/Default/Local\
Mar	12	03:01	/home/corgi/.config/chromium/Default/Local\
Mar	12	03:01	/home/corgi/.config/chromium/Default/Local\
Mar	12	03:08	/home/corgi/.config/chromium/Default/Sessions/Session_13386211240577860
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Mar	12	03:00	/home/corgi/.config/chromium/Default/discounts_db/LOG
Mar	12	03:07	/home/corgi/.config/chromium/Default/Network\
Mar	12	03:01	/home/corgi/.config/chromium/Default/Network\
Mar	12	03:03	/home/corgi/.config/chromium/Default/Reporting\

Mar	12	02:23	/home/corgi/.config/chromium/Default/WebStorage/4/CacheStorage/index.txt
Mar	12	02:23	/home/corgi/.config/chromium/Default/WebStorage/4/IndexedDB/indexeddb.leveldb/LOG
Mar	12	02:33	/home/corgi/.config/chromium/Default/WebStorage/4/IndexedDB/indexeddb.leveldb/000004.log
Mar	12	03:01	/home/corgi/.config/chromium/Default/WebStorage/QuotaManager
Mar	12	03:01	/home/corgi/.config/chromium/Default/WebStorage/QuotaManager-journal
Mar	12	03:00	/home/corgi/.config/chromium/Default/File\
Mar	12	03:03	/home/corgi/.config/chromium/Default/DIPS-wal
Mar	12	02:24	/home/corgi/.config/chromium/Default/Favicons
Mar	12	02:23	/home/corgi/.config/chromium/Default/Shared\
Mar	12	02:23	/home/corgi/.config/chromium/Default/Shared\
Mar	12	03:00	/home/corgi/.config/chromium/Default/DawnWebGPUCache/index
Mar	12	03:07	/home/corgi/.config/chromium/Default/DawnWebGPUCache/data_1
Mar	12	03:08	/home/corgi/.config/chromium/Default/Preferences
Mar	12	03:00	/home/corgi/.config/chromium/Default/parcel_tracking_db/LOG
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Mar	12	03:00	/home/corgi/.config/chromium/Default/Segmentation\
Mar	12	03:00	/home/corgi/.config/chromium/Default/Segmentation\
Mar	12	03:00	/home/corgi/.config/chromium/Default/DIPS
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Mar	12	03:00	/home/corgi/.config/chromium/Default/trusted_vault.pb
Mar	12	03:00	/home/corgi/.config/chromium/Default/ClientCertificates/LOG
Mar	12	03:08	/home/corgi/.config/chromium/Default/Cookies
Mar	12	03:00	/home/corgi/.config/chromium/Default/Shortcuts-journal
Mar	12	03:00	/home/corgi/.config/chromium/Default/GCM\
Mar	12	03:08	/home/corgi/.config/chromium/Default/History
Mar	12	03:00	/home/corgi/.config/chromium/Default/Site\
Mar	12	03:00	/home/corgi/.config/chromium/Default/Site\
Mar	12	03:00	/home/corgi/.config/chromium/Default/Feature\
Mar	12	03:00	/home/corgi/.config/chromium/Default/Feature\
Mar	12	03:00	/home/corgi/.config/chromium/Default/shared_proto_db/metadata/000003.log
Mar	12	03:00	/home/corgi/.config/chromium/Default/shared_proto_db/metadata/LOG
Mar	12	03:08	/home/corgi/.config/chromium/Default/shared_proto_db/000003.log
Mar	12	03:00	/home/corgi/.config/chromium/Default/shared_proto_db/LOG
Mar	12	03:00	/home/corgi/.config/chromium/Default/DawnGraphiteCache/index
Mar	12	03:07	/home/corgi/.config/chromium/Default/DawnGraphiteCache/data_1
Mar	12	03:00	/home/corgi/.config/chromium/Default/LOG
Mar	12	03:00	/home/corgi/.config/chromium/Default/BudgetDatabase/LOG
Mar	12	03:00	/home/corgi/.config/chromium/Default/SharedStorage-wal
Mar	12	03:00	/home/corgi/.config/chromium/GrShaderCache/index
Mar	12	03:07	/home/corgi/.config/chromium/GrShaderCache/data_1

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Mar	12	03:00	/home/corgi/.config/chromium/ShaderCache/index
Mar	12	03:07	/home/corgi/.config/chromium/ShaderCache/data__1
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Mar	12	02:59	/home/corgi/git-repositories/administration-of-information-systems-labs/lab4/plots/gnuplot-files/task3.p
Mar	12	02:42	/home/corgi/git-repositories/administration-of-information-systems-labs/lab4/assets/task2.png
Mar	12	03:08	/home/corgi/git-repositories/administration-of-information-systems-labs/lab4/assets/task3.png
Mar	12	03:08	/home/corgi/git-repositories/administration-of-information-systems-labs/lab4/outputs/task3/source__end.dat
Mar	12	03:08	/home/corgi/git-repositories/administration-of-information-systems-labs/lab4/outputs/task3/source__whole.dat
Mar	12	02:42	/home/corgi/git-repositories/administration-of-information-systems-labs/lab4/outputs/task3/source__begin.data
Mar	12	02:42	/home/corgi/git-repositories/administration-of-information-systems-labs/lab4/outputs/task3/source__whole.data
Mar	12	02:42	/home/corgi/git-repositories/administration-of-information-systems-labs/lab4/outputs/task3/source__end.data
Mar	12	03:08	/home/corgi/git-repositories/administration-of-information-systems-labs/lab4/outputs/task3/source__begin.dat
Mar	12	03:08	/home/corgi/git-repositories/administration-of-information-systems-labs/lab4/outputs/task2/output.csv
Mar	12	02:42	/home/corgi/git-repositories/administration-of-information-systems-labs/lab4/report/report.typ
Mar	12	02:51	/home/corgi/git-repositories/administration-of-information-systems-labs/lab4/Makefile
Mar	12	03:07	/home/corgi/git-repositories/administration-of-information-systems-labs/lab4/src/task3/main.sh
Mar	12	03:08	/home/corgi/git-repositories/administration-of-information-systems-labs/lab4/src/task2/main.sh

Задание 3

(Рис. 3)

File Edit View Terminal Tabs Help

```
[corgi@corgi lab4]$ make run-task3
Running a task3..
grep -R -a -E ^source $TARGET_DIR | awk '{counts[$1]++} END{for (c in counts) print c, counts[c]}' > $TEMP_FILE
cat $TEMP_FILE | awk '{sum+=$2} END{print sum}' > $OUTPUT_FILE_1
rm $TEMP_FILE

grep -R -a -E source $TARGET_DIR | awk '{counts[$1]++} END{for (c in counts) print c, counts[c]}' > $TEMP_FILE
cat $TEMP_FILE | awk '{sum+=$2} END{print sum}' > $OUTPUT_FILE_2
rm $TEMP_FILE

grep -R -a -E source$ $TARGET_DIR | awk '{counts[$1]++} END{for (c in counts) print c, counts[c]}' > $TEMP_FILE
cat $TEMP_FILE | awk '{sum+=$2} END{print sum}' > $OUTPUT_FILE_3
rm $TEMP_FILE

scrot -c -d 2 'task3.png' -e 'mv $f ./assets/';
Taking shot in 2.. 1.. █
```
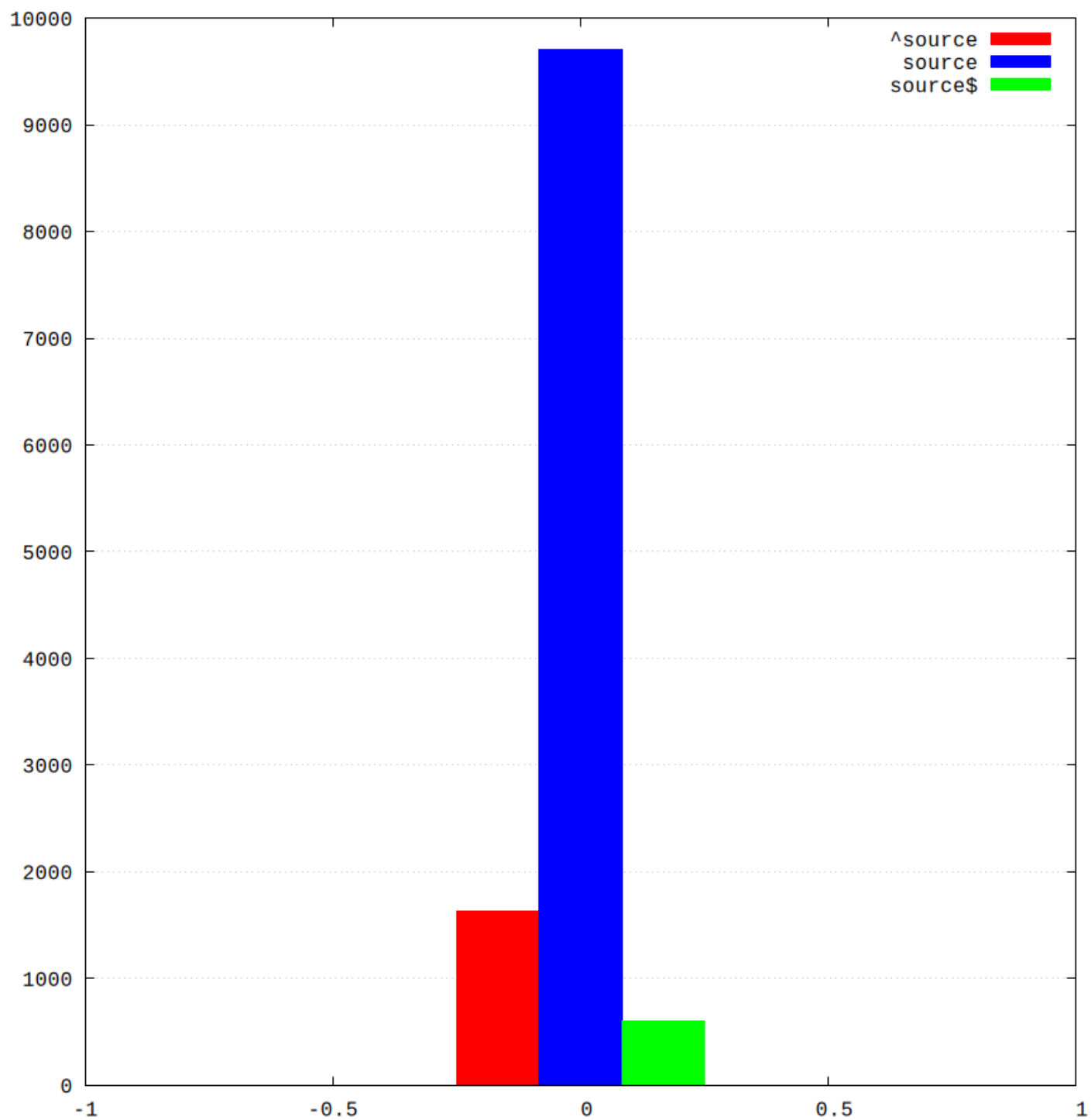
Рис. 3: Задание 3.

Рис. 4: Задание 3.