



ITMO UNIVERSITY

NATIONAL RESEARCH UNIVERSITY ITMO

FACULTY OF SOFTWARE ENGINEERING AND COMPUTER SYSTEMS

SYSTEM SOFTWARE FUNDAMENTALS

Lab Work #2 (6)

Command-line Interface

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Assignment

Create separate shell scripts that output the following information:

1. a list of users who logged into the system today, sorted alphabetically;
2. a list of files located in the specified directory whose names contain characters besides Latin letters, sorted by file size.

Code Listing

Task 1

```
#!/usr/bin/env sh
last | LC_TIME=C awk 'BEGIN{time=strftime("%a %b %e")}{if ($0 ~ time) print $1; else exit;}' | sort -u
```

Task 2

```
#!/usr/bin/env sh
if [ $# -ge 1 ]; then
    dir="$1"
else
    dir=.
fi

ls -lq "$dir" \
| tail -n+2 \
| sort -nk 5 \
| sed -E 's/([^\s+]{7})[^\s+]/' \
| awk '{if (/^[A-Za-z.]/) print}'
```