K10 - Project assignment

Requirements

- GNU Compiler Collection
- GNU Make

Compilation

```
make
make test  # Optional: Executes the unit tests
```

Execution

```
./build/project.out
./build/project.out -seed 1454857303 -n 10 -nsegs 5 -k 10 -percent 30
./build/project_test.out  # Optional: Executed by `make test`
```

Cleaning

```
make clean
```

Methodology

A detailed description of the entities and the relationships can be found at docs/Specification.md.

The behavior-driven development process was used in which, based on the specification, unit tests were written first and then the corresponding entities were being implemented. The unit tests were implemented using the Google Test library.

Git was used as the version control system along with GitHub. New features were being developed in separate branches that were merged into the `master` branch afterwards using a pull request. In addition, Travis CI was used as the continuous integration service.

Operating systems

- Fedora 23
- OS X 10.11.2
- Ubuntu 15.10

Tools

- [Apple LLVM](#) 7.0.2
- Git 2.5.0
- GNU Compiler Collection 5.3.1
- GNU Make 4.0
- Google Test
- Travis CI
- [Valgrind](#) 3.11

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