

CENTRAL WASHINGTON UNIVERSITY

OPTIMIZATION

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# Project 1 Readme

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# 1 About the Program

- Operating system used: Ubuntu 18.04 LTS.
- Language used: C++ 11 for the experimentation and R for the statistical analysis and scripting
- Compiler used: GCC 7

# 2 How to Run the Program

- navigate to "Source" folder inside the project folder and run the file "project1.R" in an R environment or alternatively from the command line, navigate to "Source" folder and then run the command "r project1.R". This step will generate a "fitness.csv" file and a "run\_times.csv" file in the "Results" folder.
- following the same process in described in the previous step, run the file "statistics.R". This will generate 3 additional .csv files containing the statistical analysis for each of the 3 dimensions (10, 20 and 30)