The aim of the thesis is to design and implement a system for managing and running and comparing the results of programs for solving computational problems. The application distributes the experiments on predefined computer pools through the ssh and scp protocols. The system allows multiple user groups to share input date, upload new versions of programs and schedule their execution. The results are stored in a database, they can be downloaded at any time in various formats and graphically compared. The result is a multi-layer web application based on the J2EE platform.