

ABSTRACT

for coursework, student Karina Reminna, group XA-41
on discipline "Computer technologies and programming" on the topic of
"Development of the project for the studying of sorting algorithms"

After analyzing the task, the means necessary for its implementation were determined. In the coursework, five sorting algorithms have been studied: insertion, merge, quick, bubble and selection. Studies were carried out by both linear arrays of custom size (set by the user), and by sorting matrix columns in ascending order of sums of their elements. The development environment Visual Basic 6.0 was used. A project that includes 26 forms was developed. The program allows user to sort matrixes of any size with chosen method. The sorting time and the number of swaps for the selected methods can be researched. The results of sorting and research are displayed in the table and chart respectively. The program provides an opportunity to record that data in a file. Each form has a reference with detailed instructions for the user.

The sorting time of different arrays was studied for each method. It is shown that among the studied methods the most effective are selection, merge and quick.

In addition, the possibilities for developing user interface of such controls as Menu Editor, SSTab, Image, Frame, MS Chart were discovered.