

TO THE SOLUTION OF "TERRITORY CUTTING" PROBLEM

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ABSTRACT. The problem of "territory cutting" consists of splitting a set of all settlements of region, in particular of all settlements of republic, on constituencies with equal numbers of population. The possible formulations of the problem and algorithms that are realized within the framework of software of "territory cutting" problem are given. The results of test problem solution are presented. The means of a graphic representation of the results of the problem solution, and an interactive mode of the problem solving that let us to realize a "hand" mode of the problem solving are developed within the framework of the software package.

Key words: "territory cutting" , settlements, electoral districts, directed connected weighed graph, vector criterion, NP-full problems, graphic display of results.