The multiobjective shortest path problem with interval costs is a generalization of the single-pair shortest path problem. In this problem, the edge weights are represented as tuples of intervals. The aim is to find the path that minimizes the maximum regret. We present theorems regarding the computation of the regret and the efficiency of a feasible solution to the problem. The main result of the thesis is an algorithm seeking for the solution with the least regret in the interval multiobjective shortest path problem.