

We study the complexity of the $\lambda-L(p, q)$ -labelling problem for fixed λ , p , and q . The task is to assign vertices of a graph labels from the set $\{0, \dots, \lambda\}$ such that labels of adjacent vertices differ by at least p while vertices with a common neighbor have different labels. We use two different reductions, one from the NAE-3SAT and the second one from the edge precoloring extension problem.