Regression testing is an inescapable and very expensive task to be performed, often in a resource and time constrained environment. The goal is to minimize the time spent in the process of testing by reduction in the number of test cases to be used. Thus various techniques are being used for test case optimization, to select the less indistinguishable test cases while providing the best possible fault coverage. This paper presents a comparative analysis of the different test case optimization techniques. There are various optimization techniques available for the context. This review explains about the different optimization techniques on the basis of their evolution, methodology, performance and applications.

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A Comparative Analysis of Optimization Techniques


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