Analysis, Implementation, Comparison and Evaluation of different Logical Techniques of Solving the Same Computing Problem

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Abstract

Computers are considered as logic driven tools. We can have different solutions for the same problem. How a particular problem can be solved depends on the individual thinking and logic. There may be multiple routes to reach from one city to another, what the route is selected depends on the best route in terms of distance, quality of routes and safety. Same way parallel it can be compared with the approach for solving computing problems. To perform task through a computer we must require writing a program in specific language and then converting it into its equivalent machine language program either by an interpreter or a compiler. Also, there exist more than one such type of solutions for the same problem. Each may have its own advantages and disadvantages in terms of memory requirement, time required for executing by a computer and readability in form of understanding the logic of solution. This research paper is discussing different basic problems to be solved by a computer in different ways and which is better compared to others using above characteristics. Same type of analysis can be applied to any complex problem by determining all possible solutions and comparisons. The examples used are so basic to better understand the power of programming language and the solution itself.
References

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Index Terms

Computer Science
Algorithms

Keywords

Analysis, comparison, evaluation, memory requirement, execution time