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Syntactic Complexity Implementing Data Structures and applications

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Abstract - It has been observed from literature that data structure courses has been a core constituent of computer science programming for many years , during the course of which various new object - oriented features have been added to the programming languages that has increased the syntactic complexity . Students are required to learn complex syntaxes of the language first before implementing any algorithm , creating confusion . lack of interest and enthusiasm for data structures among students . Specific Algorithms and Abstract Data Types have been analyzed in the past rather ineffectively to measure syntactic complexity without its definition . Further amendments have been done by us so , as to substantiate the results more effectively . A survey on a group of student programmers was conducted to get an insight into the human-oriented factors affecting syntactic complexity and the results were observed to propose a definition of syntactic complexity . This research should programming language developers to develop more comprehensible and lesser complex languages .