Building a Dynamic Website For Data Structures And Algorithms in Computer Science.

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1 Introduction

Computer Science is about writing algorithms using data structures. In the latter field, the focus is on processing information in a systematic and often automatized way. One goal in the design of solution methods (algorithms) is about making efficient use of hardware resources such as computing time and memory. It is true that hardware development is very fast; the processors? speed increases rapidly. Furthermore, memory has become cheap. One could therefore ask why it is still necessary to study how these resources can be used efficiently. The answer is simple: Despite this rapid development, computer speed and memory are still limited. Due to the fact that the increase in available data is even more rapid than the hardware development and for some complex applications, we need to make efficient use of the resources.