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Abstract

This is the abstract.

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1 Introduction

In computer science, a sorting algorithm is an algorithm that puts elements of a list into an order. The most frequently used orders are numerical order and lexicographical order, and either ascending or descending. Efficient sorting is important for optimizing the efficiency of other algorithms (such as search and merge algorithms) that require input data to be in sorted lists. Sorting is also often useful for canonicalizing data and for producing human-readable output.

From the beginning of computing, the sorting problem has attracted a great deal of research, perhaps due to the complexity of solving it efficiently despite its simple, familiar statement. Among the authors of early sorting algorithms around 1951 was Betty Holberton, who worked on ENIAC and UNIVAC.[1][2] Bubble sort was analyzed as early as 1956.[3] Asymptotically optimal algorithms have been known since the mid-20th century - new algorithms are still being invented, with the widely used Timsort dating to 2002, and the library sort being first published in 2006.

2 Methods

This is the methods section written in the methods.tex file!