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INTRODUCTION TO AL-GORITHMS NOTES

The Role of Algorithms in Computing Notes

Algorithms

An example of an algorithm is as follows

Input: A sequence of n numbers $(a_1, a_2, \ldots, a_n)$.

Output: A permutation (reordering) $(a'_1, a'_2, \ldots, a'_n)$ of the input sequence such that $a'_1 \leq a'_2 \leq \ldots \leq a'_n$.

What kinds of problems are solved by algoritnms