Efficient Flowcharting Techniques

<https://www.smartdraw.com/flowchart/flowchart-tips.htm#:~:text=Five%20Tips%20for%20Better%20Flowcharts%201%201.%20Use,Place%20Return%20Lines%20Under%20the%20Flow%20Diagram%20>

Repetetion in Flowchart >

<https://www.edrawmax.com/flowchart/repetition-in-flowcharts.html>

Symbols used in Flowchart >

<https://www.smartdraw.com/flowchart/flowchart-symbols.htm>

Decision Tree > <https://www.intellspot.com/decision-tree-examples/>

<https://www.geeksforgeeks.org/decision-tree/>

<https://www.hackerearth.com/practice/machine-learning/machine-learning-algorithms/ml-decision-tree/tutorial/>

Variables, Expressions, and Statements

<https://www.greenteapress.com/thinkpython/thinkCSpy/html/chap02.html>

Functions in Pseudocodes

[Functions and Procedures in Pseudocode - PseudoEditor](https://pseudoeditor.com/guides/functions-and-procedures)

[Pseudocode - Functions Guide (deepjain.com)](https://pseudocode.deepjain.com/guides/functions/)

[Definition, Types, Complexity and Examples of Algorithm - GeeksforGeeks](https://www.geeksforgeeks.org/what-is-an-algorithm-definition-types-complexity-examples/)

BigONotation > [Big O Notation Explained with Examples (freecodecamp.org)](https://www.freecodecamp.org/news/big-o-notation-explained-with-examples/)

Introduction to Trees, Graphs, and Hash Tables

<https://bmsce.ac.in/Content/CS/DS-UNIT-45.pdf>

<https://www.enjoyalgorithms.com/blog/introduction-to-algorithms>

<https://medium.com/enjoy-algorithm/introduction-to-algorithms-6eb8c2e82e6b>

<https://www.learning.com/blog/7-examples-of-algorithms-in-everyday-life-for-students/>

What real life application examples can sorting algorithm be used?

**Application of Sorting Algorithms**

* Order things by their value.
* Backend Databases (Merge Sort).
* Playing Cards with your friends (Insertion Sort).
* sort() - uses IntroSort (a hybrid of Quicksort, Heapsort, and Insertion Sort), Faster than qsort()
* The contact list on the phone.
* Online shopping.

<https://www.altcademy.com/codedb/examples/heap-sort-algorithm-in-c>