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# Data Structures

## Level 1

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## Map

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# What is Map?

- In C++, a `std::map` is a container in the Standard Template Library (STL) that represents an associative array.
- It is a sorted associative container that contains key-value pairs, where each key must be unique.
- The elements are ordered based on the keys, which are sorted in ascending order by default.
- This sorting allows for efficient search, insertion, and deletion of elements.
- In many programming languages, the concept of a map is similar to that of a dictionary.





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