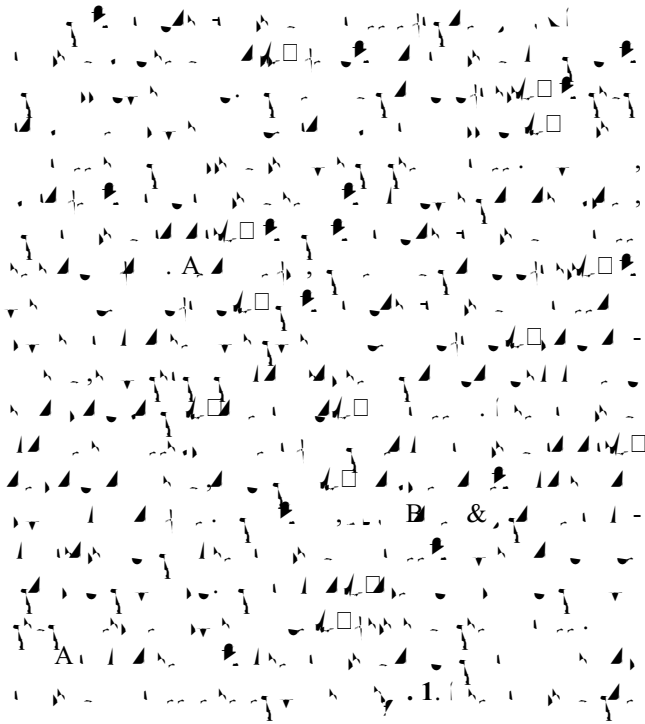


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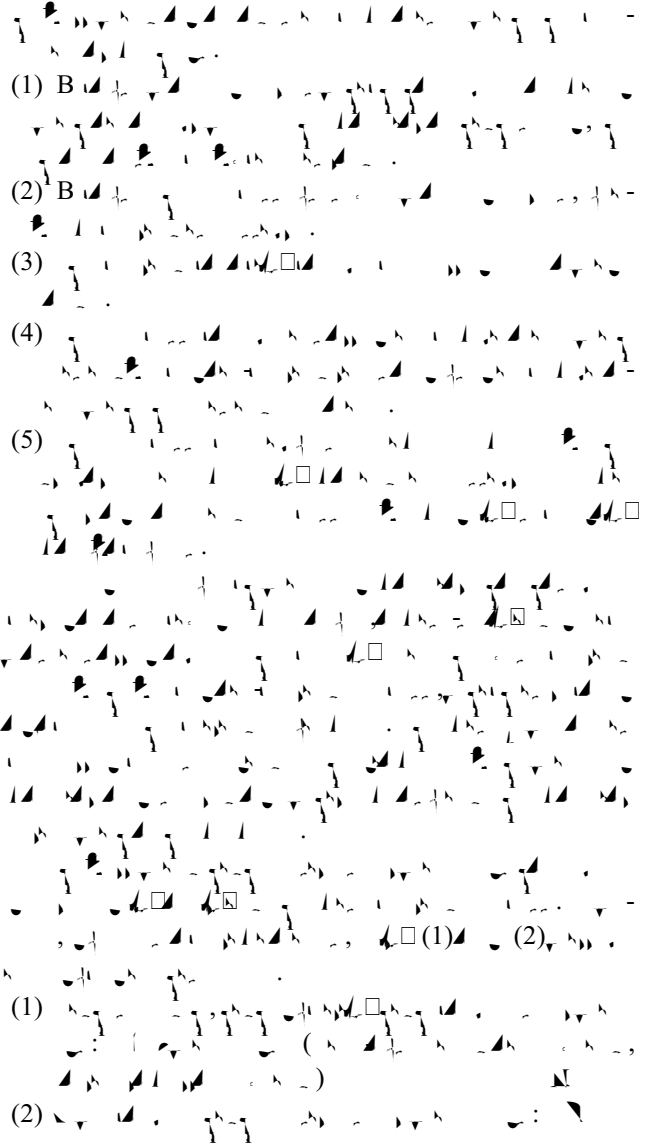


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### 3. The C++ Standard Library

The C++ Standard Library is a collection of classes and functions that provide a wide range of functionality. It is organized into several namespaces, including `std`, `std::string`, `std::vector`, and `std::list`. The library is designed to be portable and efficient, and it provides a consistent interface for working with data and algorithms.

One of the key features of the C++ Standard Library is its support for containers. Containers are classes that store and manage collections of objects. The most common containers are `std::vector`, `std::list`, and `std::string`. Each container has its own set of methods for adding, removing, and accessing elements.

The C++ Standard Library also provides a rich set of algorithms. These algorithms are designed to work with containers and other data structures. They include sorting, searching, and other operations that are commonly used in programming.

Finally, the C++ Standard Library provides a set of utility classes and functions. These include `std::string`, `std::string_view`, and `std::optional`. These classes and functions provide a convenient way to work with strings, optional values, and other data types.

