C++ Standard Exceptions
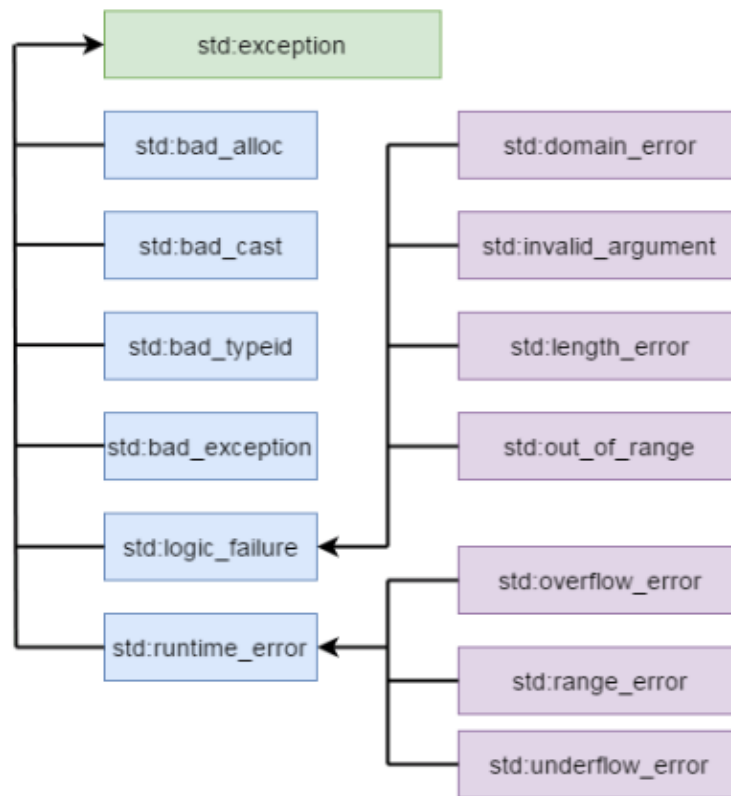

- std::exception – The exception and parent class of all the standard C++ exceptions.
- std::logic_error – This exception can be detected by reading the code.
- std::domain_error – This exception is thrown when an invalid domain is used.
- std::invalid_argument – This exception is thrown due to invalid arguments.
- std::out_of_range – This exception is thrown due to out of range which means size requirement exceeds the memory allocation.
- std::length_error – This exception is thrown due to length error.
- std::runtime_error – This exception occurs during runtime and cannot be detected by reading the code.
- std::range_error – This exception occurs when you try to store a value out of range.
- std::overflow_error – This exception occurs due to arithmetic overflow occurs.
- std::underflow_error – This exception occurs due to arithmetic underflow occurs.
- std::bad_alloc – This exception occurs when memory allocation fails by new( ).
- std::bad_cast – This exception occurs when dynamic cast fails.
- std::bad_exception – This exception is designed to be listed in the dynamic exception specifier.
- std::bad_typeid – This exception is thrown by typeid