

Abstract	Currency	Dollar, Euro, Yen, Rupee, Yuan
<ul style="list-style-type: none">• Store currency whole parts• Store currency fractional parts• Store currency names• Operator overloads (Arithmetic, Comparison)• Get/Set data members• Prevent operations that would set currency to negative values• Prevent operations that would perform operations between two Currency objects of different types	<ul style="list-style-type: none">• ExceptionCurrencyNegative• ExceptionCurrencyMismatch	

Dollar		Currency	
<ul style="list-style-type: none"> • Set currency names 		<ul style="list-style-type: none"> • Currency 	

Euro		Currency	
<ul style="list-style-type: none"> • Set currency names 		<ul style="list-style-type: none"> • Currency 	

Yen		Currency	
<ul style="list-style-type: none"> • Set currency names 		<ul style="list-style-type: none"> • Currency 	

Rupee		Currency	
<ul style="list-style-type: none"> • Set currency names 		<ul style="list-style-type: none"> • Currency 	

Yuan

Currency

- Set currency names

- Currency

Wallet

- Contain five currencies
- Overload subscript operator to access 5 currencies
- Add and remove currencies
- Empty (zero) all and specific currencies
- Get number of all and specific empty (zero) currencies
- Prevent remove operations on empty currencies
- Prevent subscript operator from accessing data outside the 5 allocated currencies

- Currency
- ExceptionWalletZero
- ExceptionWalletOutOfBounds

ExceptionCurrencyNegative

std::exception

- Signal when currency would become negative

- std::exception

ExceptionCurrencyMismatch

std::exception

- Signal when currencies of different types get used in the same operation

- std::exception

ExceptionWalletZero

std::exception

- Signal when a remove operation is preformed on an empty currency in the Wallet

- std::exception

ExceptionWalletOutOfBounds

std::exception

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| <ul style="list-style-type: none">• Signal when the Wallet subscript operator is passed a value outside accepted values (0-4) | <ul style="list-style-type: none">• std::exception |
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