template<elemType> listType

```
-maxSize: int
-length: int
-list*: elemType
```

+isEmpty() const : bool
+isFull() const : bool
+getLength() const : int
+getMaxSize() const : int

+sort(): void +print() const : void

+insertAt(const elemType&, int) : void

+getAt(int) : elemType&

+clear() : void +listType(int) +~listType()

stockListType

-t : listType<stockType>-totalAssetsValue : dobule

-fileName : string

+stockListType() +populateList():void +clearList():void

+getFileName(): string

+getTotalAssetsValue(): double

+setFileName(string) : void +createFileReport() : void

+printScreenReport(): void

+printScreenReportByGain(): void

crea

-addToList(stockType) : void
-createHeader(ostream&) : void
-createFooter(ostream&) : void

-sortGainLoss(): int*

-countLines(): int

stockType

-symbol: string
-totalValue: double
-numberOfShares: int
-openingPrice: double
-closingPrice: double
-highPrice: double
-lowPrice: double
-previousPrice: double
-percentGainLoss: double

<<fr>eam&, stockType&): ostream&

<<friend>> operator>> (istream&, stockType&) : istream&

+stockType()

+getSymbol() : string
+getTotalValue() : double
+getNumOfShares() : int
+getOpeningPrice() : double
+getClosingPrice() : double

+getHighPrice() : double +getLowPrice() : double

+getPreviousPrice() : double
+getPercentGainLoss() : double

+setSymbol(string): void +setNumOfShares(int): void

+setOpeningPrice(double): void

+setClosingPrice(double): void

+setHighPrice(double): void

+setLowPrice(double): void

+setPreviousPrice(double): void +operator== (stockType&): bool

+operator!= (stockType&): bool

+operator<= (stockType&) : bool

+operator< (stockType&) : bool

+operator>= (stockType&) : bool

+operator> (stockType&) : bool

stockApp

-lst : stockListType

+stockApp() +execute(): void -menu(): void

-getSelection(string) : void
-changeFileName() : string