*Stock*

#symbol : String

#type : String

#lastDividend : double

#fixedDividend : double

#parValue : double

#dividenYield : double

#peRatio : double

#geometricMean : double

#tickerMeanPrice : double

#stockPrice : double

+Stock(symbol:String,type:String,parValue:double,lastDividend:double,fixedDividend:double,tickerMeanPrice:double,tickers:ArrayList<Ticker>)

+initializeTicker(tickers:ArrayList<Ticker>) : void

+getSymbol() : String

+getType() : String

+getStockPrice() : double

+getLastDividend() : double

+getFixedDividend() : double

+getParValue() : double

+getDividenYield() : double

+getTickerMeanPrice() : double

+getPeRatio() : double

+getGeometricMean() : double

+setSymbol(symbol:String) : void

+setType(type:String) : void

+setLastDividend(lastDividend:double) : void

+setFixedDividend(fixedDividend:double) : void

+setParValue(parValue:double) : void

+setDividenYield(dividenYield:double) : void

+setPeRatio(peRatio:double) : void

+setGeometricMean(geometricMean:double) : void

+setTickerMeanPrice(tickerMeanPrice:double) : void

#calculateDividendYield() : double;

#calculatePeRatio() : void

+addTicker(quantity:int, price:double, operation:String) : void

+getGCBE() : double

#calculateGBCE() : double

+calculateStockPriceNoOperation() : double

+calculateStockPrice() : double

+calculateStockPriceIntervalTime(lastInterval : long) : double

+tradePrice: double

+quantity: int

+timeRecord: Date

+operation: String

+getTimeRecordinMillis() : long

Ticker

+Ticker(quantity : int, tradePrice : double, timeRecord : Date, operation : String)

+getOperation() : String

+setOperation(operation : String) : void

+setTimeRecord(timeRecord : Date) : void

+getTradePrice() : double

+getTimeRecord() : Date

+ isInInterval(begDate : Date): boolean

+setTradePrice(tradePrice : double) : void

+setQuantity(quantity : int) : void

+getQuantity() : int

StockPreferred

+StockCommon(symbol:String,type:String,parValue:double,lastDividend:double,fixedDividend:double,tickerMeanPrice:double,tickers:ArrayList<Ticker>)

#calculateDividendYield() : double

StockCommon

+StockPreferred(symbol:String,type:String,parValue:double,lastDividend:double,fixedDividend:double,tickerMeanPrice:double,tickers:ArrayList<Ticker>)

#calculateDividendYield() : double

1..n