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/**
 * @author Harley Phung
 * Create a Market maker in the transaction
 */

public class MarketMaker extends Trader {
    /** the name of the market maker */
    private String name  = "";

    /** the order size of the market maker */
    private int defaultOrderSize = 0;

    /** the price offset of the market maker */
    private double priceOffset = 0.0;

    /**
     * A constructor that take market maker's name as input
     * @param name  the name of the market maker
     * @param defaultOrderSize  the order size automatically generated when the
market is sold
     * @param priceOffset  the price per share of defaultOrderSize
     */
    public MarketMaker (String name, int defaultOrderSize, double priceOffset) {
        super(name);
        this.name = name;
        this.defaultOrderSize = defaultOrderSize;
        this.priceOffset = priceOffset;
    }

    /**
     * returns the market maker name
     * @return name  the market maker name
     */
    @Override
    public String getName() {
        return this.name;
    }

    /**
     * Changes the market maker name
     * @param name   new market maker's name
     */
    @Override
    public void setName(String name){
        this.name = name;
    }

    /**
     * Returns the default size of market order
     * @return defaultOrderSize  the size of market order when generated new market
     */
    public int getDefaultOrderSize() {
        return this.defaultOrderSize;
    }

    /**
     * Changes the default size of market order
     * @param defaultOrderSize  new default order size of the market
     */
```

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    public void setDefaultOrderSize(int defaultOrderSize) {
        this.defaultOrderSize = defaultOrderSize;
    }

    /**
     * Rreturns the price offset for market maker
     * @return priceOffset  the price per share of the default order size
     */
    public double getPriceOffset() {
        return this.priceOffset;
    }

    /**
     * Changes the price offset for market maker
     * @param priceOffset  new price offset of the market
     */
    public void setPriceOffset(double priceOffset) {
        this.priceOffset = priceOffset;
    }

    /**
     * An override toString method to format the returned String
     */
    @Override
    public String toString() {
        return "The market maker name is: " + this.getName();
    }

    /**
     * An override equals method that compared the two trader's information.
     * @param o  the trader that is compared to
     * @return true  if there's identical market maker
     * @return false  if there's no identical market maker
     */
    @Override
    public boolean equals(Trader o) {
        //Check if the input is a trader
        if (o instanceof Trader) {
            if (this.getName().equals(o.getName())) {
                return true;
            }
        }
        return false;
    }
}
```