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\* \*\*\*\*\*\* \*\*\*| CSC 406 Take Home Test 01 |\*\*\* \*\*\*\*\*\*

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\* |DESCRIPTION: This is the take home portion of the in class test over Threads. |

\* |I take the ForSale class and recreate it, make a runnable class for the Bid |

\* |task and use the myBid function in ForSale to process the bids that are made |

\* |on the bidding item "Dutch Masters Oil Painting". After that I wait for the |

\* |launched threads to complete and print out the bids that were made on that |

\* |item. |

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import java.util.ArrayList;

import java.util.concurrent.ExecutorService;

import java.util.concurrent.Executors;

import java.util.concurrent.TimeUnit;

public class main {

public static void main(String[] args) {

int i = 0;

// Instance that ForSale object

ForSale item1 = new ForSale("Dutch Masters Oil Painting",60000.00,5000.00);

// Create the fixed Thread pool

ExecutorService executor = Executors.newFixedThreadPool(6);

// Create the Bids

Runnable Bid1 = new Bid(item1,5283,4827,4000.00,18481);

Runnable Bid2 = new Bid(item1,4681,4827,15000.00,18482);

Runnable Bid3 = new Bid(item1,5283,4827,14500.00,18483);

Runnable Bid4 = new Bid(item1,5283,4827,17500.00,18485);

Runnable Bid5 = new Bid(item1,4681,4827,25000.00,18489);

Runnable Bid6 = new Bid(item1,5283,4827,32000.00,18495);

// Launch those Threads

executor.execute(Bid1);

executor.execute(Bid2);

executor.execute(Bid3);

executor.execute(Bid4);

executor.execute(Bid5);

executor.execute(Bid6);

// Print out the bids that have been made on that object

System.out.println("ATTENTION: Waiting for Threads to finish ");

System.out.println();

executor.shutdown();

while(!executor.isTerminated()) {

i++;

if(i%2500 == 0){

System.out.println("Waiting......");

}

}

System.out.println();

System.out.println("Bidders in the last ten minutes of the items bidding time : ");

System.out.println();

System.out.println();

for(int j = 1; j <= 10;j++) {

System.out.println(item1.list.get(j));

}

}