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**Module 4 Assignment – Hash Tables**

**START**

**WHILE** user input is not 9:

Display Menu:

Option 1: Load Bids

Option 2: Display All Bids

Option 3: Find Bid

Option 4: Remove Bid

Option 9: Exit

**PRINT** “Enter choice: “

**GET** user input

**IF** user choice is 1:

**START** clock

**CALL** loadBids with the CSV file path and bidTable

**STOP** timer

**PRINT** “time: “ and time taken in clock ticks

**PRINT** “time: “ and time taken in seconds

**IF** user choice is 2:

**LOOP** through all nodes in the hash table

**IF** node is not empty:

**PRINT** bid details

**WHILE** next node is not null:

**PRINT** bid details

**IF** user choice is 3:

**START** clock

**CALL** Search() function to find bid

**IF** bid is found:

**PRINT** bid info

**ELSE IF** bid is not found:

**PRINT** “Bid Id “ + bidKey + “not found.”

**PRINT** time taken in clock ticks

**PRINT** time taken in seconds

**IF** user choice is 4:

**REMOVE** bid with bidKey from bidTable

**IF** user choice is 9:

**PRINT** “Good bye.”

**EXIT** the loop

**END**