LOAD BIDS

FOR bids in csv file

READ bid

ASSIGN Bid object members data from file

CALL Insert method and pass Bid object

ENDFOR

INSERT

CALL Hash function to create key

CHECK if bucket exists at that key

IF no entry found

CREATE bucket with Bid object

ELSE

IF container key is maximum integer

ASSIGN container key to created key

ASSIGN container bid to Bid object

ASSIGN container next to null

ELSE

WHILE container next is not null

ASSIGN container to next container

ENDWHILE

ASSIGN container next to new container with Bid object and created key

ENDIF

ENDIF

HASH

RETURN passed key mod size of table

REMOVE

CALL hash function to create key from passed bid ID

ERASE element with that bid ID

SEARCH

CREATE Bid object

CALL Hash function to create key from passed bid ID

ASSIGN container pointer to a container at created key

IF container doesn’t exist

RETURN created Bid object

ENDIF

IF container is found with matching key

RETURN Bid object that matches

ENDIF

IF multiple elements in container

ITERATE through container

RETURN matching element

ENDIF

PRINTALL

FOR the number of containers iterations

WHILE container isn’t empty

DISPLAY container’s Bid object member details

ASSIGN container to next container

ENDWHILE

ENDFOR