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COP 3538 Data Structures using OOP

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Project 5 Pseudocode FileInterface class

**FileInterface class**

**public void readMainFile () throws IOException**

declare input string variable of type String

declare file reader object to read input from HashHeap.txt file

declare buffered reader object

assign buffered reader object reading a line from the file to input string

while input string is not null

add input string to the hashMain array

increment countHashMain by 1

assign buffered reader object reading a line from the file to input string

end while loop

close file reader object

close buffered reader object

end readMainFile method

**public void readUpdateFile () throws IOException**

declare input string variable of type String

declare file reader object to read input from HashHeapUpdate.txt file

declare buffered reader object

assign buffered reader object reading a line from the file to input string

while input string is not null

add input string to the hashUpdate array

increment countHashUpdate by 1

assign buffered reader object reading a line from the file to input string

end while loop

close file reader object

close buffered reader object

end readUpdateFile method

**public void readHashTableFile () throws IOException**

declare input string variable of type String

declare file reader object to read input from HashValue.txt file

declare buffered reader object

assign buffered reader object reading a line from the file to input string

while input string is not null

add input string to the hashTable array

increment countHashTable by 1

assign buffered reader object reading a line from the file to input string

end while loop

close file reader object

close buffered reader object

end readHashTableFile method

**public int getHashMainSize ()**

return the length of hashMain array to the calling environment

end getHashMainSize method

**public String getHashMainElements (int count)**

return the string value of hashMain array at index value of count to the calling environment

end getHashMainElements method

**public void getHashUpdateSize ()**

return the length of hashUpdate array to the calling environment

end getHashUpdateSize method

**public String getHashUpdateElements (int count)**

return the string value of hashUpdate array at index value of count to the calling environment

end getHashUpdateElements

**public int getHashTableSize ()**

return the length of hashTable array to the calling environment

end getHashTableSize method

**public String getHashTableElements (int count)**

return the string value of hashTable array at index value of count to the calling environment

end getHashTableElements method

**public void displayHashMain ()**

for loop to count through the indexes of hashMain array

display the string value of hashMain array at index value of count to the user

end displayHashMain method

**public void displayHashUpdate ()**

for loop to count through the indexes of hashUpdate array

display the string value of hashUpdate array at index value of count to the user

end displayHashUpdate method

**public void displayHashTable ()**

for loop to count through the indexes of hashTable array

display the string value of hashTable array at index value of count to the user

end displayHashTable method

end FileInterface class