**Data Structure\_2071035 Lee Somin**

**Technical Report – Hashing.cpp**

*Theorical Explanation of Functions in ‘Hashing.cpp’*

**hash\_chain\_delete**

Inputs: element item, ListNode\* ht[]

Return: non

This function searches the hash table and deletes the node with the input item. First, it calculates the hash value by calling ‘hash\_function()’. Then, it searches for the node in the hash list with same hash value that has identical key. When the node exist, the parent node’s link is updated to the link of the node to be deleted. When it is first node of the list, the head pointer in the hash table is updated to the link of the node to be deleted. Then, the node is freed and the function returns. If there is no such node containing the key, the function prints error message and returns.

**main**

In main function, it gets the operation number from keyboard. If the operation number is 3, the main function calls ‘hash\_chain\_delete()’ to delete the node with the given element and the hash table is printed out.

(Result continued)

**Result:**

텍스트이(가) 표시된 사진

자동 생성된 설명