

HW9 Requirement

Keyword

- A keyword is a tuple of `[String name, Integer count]`

- For example:

```
{  
  name: "Fang",  
  count: 3  
}
```

- A key word should output in format **`[name,count]`** :

```
[Fang,3]
```

Requirements

- Maintain a keyword list, and implement the LCS algorithm
- For the list structure, you can
 - Use `java.util.ArrayList`
 - `java.util.LinkedList`
 - Or develop it by yourself

I/O Example: add

- Input:

- Token1 : a constant “add”
- Token2 : keyword name **k**
- Token3: keyword count **c**
- EX: `add Fang 3`

- To do:** Insert a keyword [**k,c**] to the list

- Output:**

- Simply output a line of constant “**Done**”
- EX: `Done`

I/O Example: find

- Input:

- Token1 : a constant “find”

- EX:

```
find
```

- **To do:** Find and output the most similar keyword by using the LCS algorithm

- **Output:**

- If heap is empty, simply output a line of “InvalidOperation”.

```
InvalidOperation
```

- If it is legal to peek:

```
Done
```

Sample Test Data (Input)

- add Fang 3
- add Yu 5
- add NCCU 2
- add UCSB 1
- add Management 4
- add Information 5
- find NTU
- find Manager

Sample Test Data (Output)

- NTU: [NCCU, 2]
- Manager: [Management, 4]