

## Lab6 Doubly Linked List Exercise

- Requirement:

- 1) Menu (1. insert, 2. delete, 3. forward 4. backward 5. search 6. Find-n<sup>th</sup>)
- 2) 데이터는 다음 데이터를 데이터 파일로 저장하여 사용함.
- 3) 입력데이터는 오름차순으로 리스트 만들어서 저장 (key: name)

### (Input Data)

| <u>name</u> | <u>weight</u> | <u>height</u> |
|-------------|---------------|---------------|
| kim         | 52            | 165           |
| lee         | 55            | 170           |
| choi        | 60            | 168           |
| song        | 51            | 162           |
| hong        | 50            | 150           |

### \*\* 검사 절차(Testing procedure)

#### 1) Forward List

| <u>name</u> | <u>weight</u> | <u>height</u> |
|-------------|---------------|---------------|
| choi        | 60            | 168           |
| hong        | 50            | 150           |
| kim         | 52            | 165           |
| lee         | 55            | 170           |
| song        | 51            | 162           |

#### 2) Search “Lee” → Found

#### 3) Delete “Lee”

| <u>name</u> | <u>weight</u> | <u>height</u> |
|-------------|---------------|---------------|
| choi        | 60            | 168           |
| hong        | 50            | 150           |
| kim         | 52            | 165           |
| song        | 51            | 162           |

#### 4) Backward List

| <u>name</u> | <u>weight</u> | <u>height</u> |
|-------------|---------------|---------------|
| song        | 51            | 162           |
| kim         | 52            | 165           |
| hong        | 50            | 150           |
| choi        | 60            | 168           |

#### 5) Find 3<sup>rd</sup>

|      |    |     |
|------|----|-----|
| hong | 50 | 150 |
|------|----|-----|