## Functions for data input, Read Marker

Read with >>

```
Automatically skipping white spaces: '', '\t', '\n'
Reading integer, float, char, string
```

What values are in ch, v1, and f1? where is the reading marker?

```
Example:
```

```
char ch, ch1, ch2;
                                              (1) 25 \t A 16.9\n
int
      v1;
                                             (2) 25A16.9\n
float f1;
                                             (3) 16\n
string st1, st2;
                                                  B \setminus n
                                                  2.5\n
                                              (4) 24 34.4 23\n
cin >> v1 >> ch >> f1; // or
```

myIn >> v1 >> ch >> f1;

read character using get

get: read one character from input stream without skipping white spaces

what values are in v1, f1, ch, ch1, ch2:

```
(1) cin >> v1;
                                     myIn >> v1;
                                     myIn.get(ch);
    cin.get(ch);
    cin >> str1;
                                     myIn >> str1
```

- (2) cin.get(ch); myIn.get(ch); cin >> v1; mvIn >> v1; myIn >> f1;cin >> f1; cin.get(ch); myIn.get(ch); cin >> str2;
- (3) cin.get(ch1); // change cin to myIn cin.get(ch2); cin>>ch1; cin >> f1; data: 21 C 34.2\n
- read string : >> vs. getline

```
examples:
                                          data:
(1) cin >> st1;
                                          Motel 8 Super
(2) cin >> st1 >> v1 >> st2;
(3) getline (cin, st1);
```

**getline**: read one line of characters (consuming the newline character) the reader marker moves to the beginning of the next line

• using "ignore" in data input

```
the ignore function is used to skip (read and discard) characters in the input steam. cin.ignore(200, '\n')
```

what are the values of the variables, where is the read marker?

```
Examples
(1) cin >> v1 >> v2; 957 34 1235\n
cin.ignore(100, '\n'); 128 96 \n
cin>> v2;
(2) cin >> ch1; A 22 B 16 C 19\n
cin.ignore(100, 'B')
cin >> ch2;
(4) cin.ignore(2, '\n'); ABCDEF\n
cin >> ch;
```

## // change cin to myIn in each example

• using "ignore" and ">>" in data input