

Reading data: read marker, write marker, get, getline, ignore

- **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:

Data

```
char ch, ch1, ch2;
int v1;
float f1;
string st1, st2;

cin >> v1 >> ch >> f1;
```

(1) 25 \t A 16.9\n
(2) 25A16.9\n
(3) 16\nB\n2.5\n
(4) 24 34.4 23\n

- 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;
    cin.get(ch);        myIn.get(ch);
    cin >> str1;

(2) cin.get(ch);        myIn.get(ch);
    cin >> v1;          myIn >> v1;
    cin >> f1;          myIn >> f1;
    cin.get(ch);        myIn.get(ch);
    cin >> str2;

(3) cin.get(ch1);
    cin.get(ch2);
    cin >> ch1;
    cin >> f1;
```

data:
21 C 34.2\n

- read string : >> vs. **getline**

examples:

```
(1) cin >> st1;
(2) cin >> st1 >> v1 >> st2;
(3) getline (cin, st1);
```

data:

Motel 8 Super

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

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

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

Examples

(1) `cin >> v1 >> v2;`
`cin.ignore(100, '\n');`
`cin >> v2;`

data

957 34 1235\n
128 96 \n

(2) `cin >> ch1;`
`cin.ignore(100, 'B')`
`cin >> ch2;`

A 22 B 16 C 19\n

(4) `cin.ignore(2, '\n');`
`cin >> ch;`

ABCDEF\n