



LINE I/O

Reading files one line at a time



LINE INPUT FUNCTIONS: string CLASS

- `istream in("input.txt");`
- `string s;`

- `istream& getline(istream& in, string& s);`
- `istream& getline(istream& in, string& s, char delim);`



LINE INPUT FUNCTIONS: C-STRING

- `istream in("input.txt");`
- `char s[n];`

- `istream& getline(char* s, int n);`
- `istream& getline(char* s, int n, char delim);`

- `istream& get(char* s, int n);`
- `istream& get(char* s, int n, char delim);`



SINGLE READ PATTERNS

string CLASS

```
string line;
while (getline(input, line))
{
    // process line
    output << line << endl;
}
```

C-STRING

```
char line[100];
while (input.getline(line, 100))
{
    // process line
    output << line << endl;
}
```



TWO-READ PATTERNS: LINE LENGTH

string CLASS

```
string line;
getline(input, line);
while (line.length() > 0)
{
    // process line
    cout << line << endl;
    getline(input, line);
}
```

C-STRING

```
char line[100];
input.getline(line, 100);
while (strlen(line) > 0)
{
    // process line
    cout << line << endl;
    input.getline(line, 100);
}
```



TWO-READ PATTERNS: eof() FUNCTION

string CLASS

```
string line;
getline(input, line);
while (!input.eof())
{
    // process line
    cout << line << endl;
    getline(input, line);
}
```

C-STRING

```
char line[100];
input.getline(line, 100);
while (!input.eof())
{
    // process line
    cout << line << endl;
    input.getline(line, 100);
}
```

