# strings

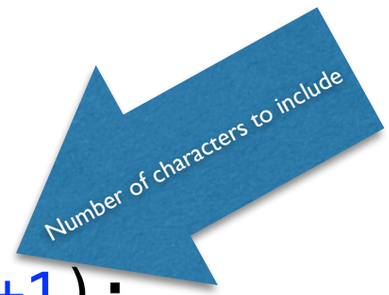
## string::find_first_of

## string::substr

```
vector<string> fields(10);
string s = "101,,Van Cortlandt Park - 242 St,,40.889248,-73.898583,,

int pos1 =  s.find_first_of(',');
fields[0] = s.substr(0,pos1);

int pos2 = s.find_first_of(',', pos1+1);
fields[1]= s.substr(pos1+1, pos2-pos1-1); //notice this is the
                                          //empty string
cout << fields[1];
cout << fields[0]<< endl;
```




# For more information:

http://www.cplusplus.com/reference/string/string/find_first_of/

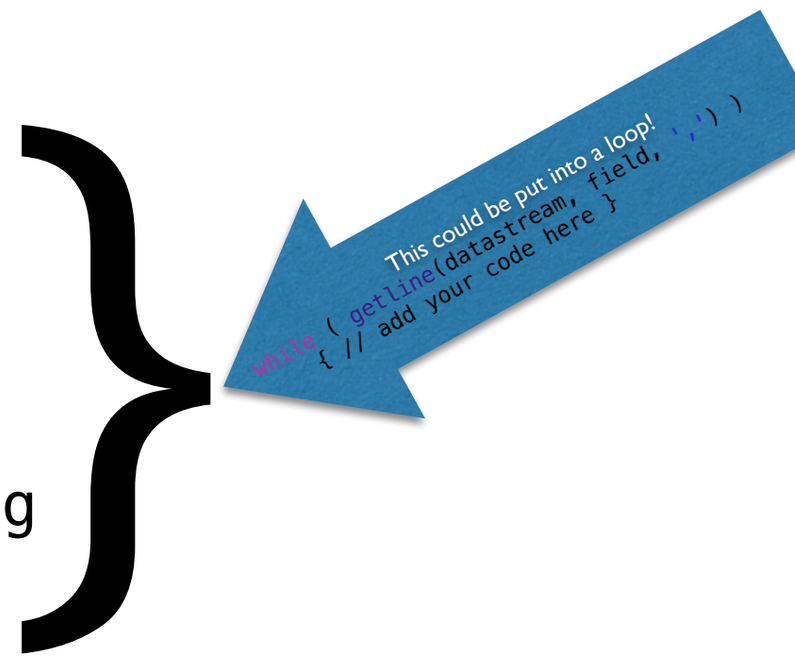
http://www.cplusplus.com/reference/string/string/substr/

"The simplest method of tokenizing strings in C++ is to use the standard iostream capabilities. The std::getline() function has a very rudimentary capacity to break strings up using a single delimiter character each time you call the function."

This code was inspired from Patrick's (our TA) code for splitting a string

```
vector<string> fields;
string data = "101,,Van Cortlandt Park – 242 St,,40.889248,-73.89858
stringstream  datastream(data);
string field;

getline(datastream, field, ',');
fields.push_back(field);
```




```
getline(datastream, field, ','); //empty string
fields.push_back(std::move( field ));

cout << fields[1] << fields[0]<< endl;
```

# For more information:

http://www.cplusplus.com/faq/sequences/strings/split/

# String to double?

Learn more about c style strings: http://www.learncpp.com/cpp-tutorial/66-c-style-strings/

```
string aString = “3.14159”;

double d = atof( aString.c_str() );
```