C-String

```
char letters[] = \{'A', 'B', 'C', '\setminus 0'\};
                                         // null character at the end
char letters[] = "ABC";
                                         // automatically inserts null character at the end
                                          // so the same initialization
int numbers[] = \{1,2,3\};
                                          // Displays the address of the first element
cout << numbers;</pre>
                                          // Displays "ABC", up to the null character
cout << letters;</pre>
char letters[] = "ABC";
cout << sizeof(letters);</pre>
                                         // 4, since \0 is at the end
char sentence[] = "This is a test in coding";
char* ptr = nullptr;
ptr = strstr(sentence, "test");
                                         // sets 'ptr' to point to the element of the array
                                          // at which "test" starts
                                          // Displays "test in coding"
cout << ptr;
char name1[10];
char name2[10];
if (strcmp(name1, name2) == 0)
                                         // Checks if they are the same
if (strcmp(name1, name2) < 0)
                                         // Checks if name1 is alphabetically less than name2
if (strcmp(name1, name2) > 0)
                                          // Checks if name1 is alphabetically greater than name2
                                         // Assigns 12345 to 'num'
int num = atoi("12345");
int num = atoi("12ABC");
                                         // Assigns 12 to 'num'
double d = atof("3.14159");
                                         // Assigns 3.14159 to 'd'
```

String