

```
1  /*-----*/
2  Copyright (c) 2014 Author: Jagadeesh Vasudevamurthy
3  file: strtest.cpp
4
5  On linux:
6  g++ str.cpp strtest.cpp
7  valgrind a.out
8  -- All heap blocks were freed -- no leaks are possible
9
10 -----*/
11
12 /*-----*/
13 This file test str object
14 -----*/
15
16 /*-----*/
17 All includes here
18 -----*/
19 #include "str.h"
20
21 /*-----*/
22 static definition - only once at the start
23 Change to false, if you don't need verbose
24 -----*/
25 bool str::_display = true;
26
27 /*-----*/
28 main
29 -----*/
30 void test1() {
31     const char *j = "jag";
32     cout << "length of j = " << strlen(j) << endl;
33     str s1('U');
34     str s2("jag");
35     cout << s2 << endl;
36     s2.reverse();
37     cout << s2 << endl;
38     str s3(s2);
39     cout << s1 << endl;
40     cout << s2 << endl;
41     cout << s3 << endl;
42     s2 = s1;
43     cout << s2 << endl;
44     cout << s1 << endl;
45     if (s1 == s2) {
46         cout << "s1 == s2" << endl;
47     }
48     if (s1 != s3) {
49         cout << "s1 != s3" << endl;
50     }
51     str s10("abcd");
52     str s11("abc");
53     int x = string_compare(s10, s11);
54     s3 = 'a' + s1;
55     cout << "s1 = " << s1 << endl;
56     cout << "s3 = " << s3 << endl;
57     s3 = s1 + 'p';
58     cout << "s3 = " << s3 << endl;
59     //s3 = "abc" + "123" ;
60     // You cannot do this. At least one in RHS must be str
61     s3 = str("abc") + "123";
62     cout << "s3 = " << s3 << endl;
63     s1 = "++";
64     s2 = "Claaaa";
65     cout << "Jag " << 'C' + s1 + '+' + '+' + ' ' << s2 << "s" << endl;
66 }
```

```
67
68 /*-----
69 main
70 -----*/
71 int main() {
72     test1();
73     return 0;
74 }
75
76 //EOF
77
78
```