```cpp
1    #include <string>
2    #include <iostream>
3    using namespace std;
4    int main(int argc, char** argv)
5    {
6        //Создание строк
7        string s1;
8        cout << s1.size() << endl; // 0
9        //cin >> s1;
10       s1 = "sdfg";
11       cout << s1.size() << endl; //     4
12       string s2("ABC");
13       cout << s2 << endl<< endl;
14       //ABC
15       char csrt[] = "hello world";
16       string s3(csrt);
17       s3[0] = '4';
18       cout << s3 << endl<< endl;
19       // 4ello world
20       //получение подстроки
21       string s4(s3, 0, 5);
22       cout << s4 << endl;
23       cout << s3.substr(6, s3.size() - 1) << endl<< endl;
24       //4ello
25       //world
26       //конкантенация
27       string s5;
28       s5 = s4 + ", " + s3;
29       cout << s5 << endl<< endl;
30       //4ello, 4ello world
31       //Расширение
32       string s6 = "AAAbbbCCC";
33       s6 + "ddd";
34       cout << s6 << endl; // не изменилась
35       //AAAbbbCCC
36       s6.append("ddd");
37       cout << s6 << endl; //изменилась
38        //AAAbbbCCCddd
39       s6+="ddd";
40       cout << s6 << endl<< endl; //изменилась
41       //AAAbbbCCCdddddd
42       //Емкость
43       string s7 = "Cat";
44       cout << s7 << " size=" << s7.size() << " capasity=" << s7.capacity() << endl;
45       //     Cat size=3 capasity=3
46       s7.append(" and Dog");
47       cout << s7 << " size=" << s7.size() << " capasity=" << s7.capacity() << endl;
48       //     Cat and Dog size=11 capasity=11
49       //Замена
50       string stringToReplace = " and";
51       int pos = s7.find(stringToReplace);
52       s7.replace(pos, stringToReplace.size(), ",");
53       cout << s7 << " size=" << s7.size() << " capasity=" << s7.capacity() << endl;
54       //     Cat, Dog size=8 capasity=11
55       s7.append("!");
56       cout << s7 << " size=" << s7.size() << " capasity=" << s7.capacity() << endl;
57       //     Cat, Dog! size=9 capasity=11
58       //Резервирование
59       s7.reserve(50);
60       cout << s7 << " size=" << s7.size() << " capasity=" << s7.capacity() << endl<< endl;
61       //     Cat, Dog! size=9 capasity=50
62       for(int i=0; i<20; i++)
63       {
64           s7.append("!");
65       }
66       cout << s7 << " size=" << s7.size() << " capasity=" << s7.capacity() << endl<< endl;
67       //     Cat, Dog!!!!!!!!!!!!!!!!!!!!! size=29 capasity=50
68       s7.begin();
69       for(int i=0; i<3; i++)
70       {
71           cout << s7[i] << endl;
72       }
```

```cpp
73          //    C
74          //    a
75          //    t
76      cout<< endl;
77      //Сравнение
78      string s8,s9;
79      cin>>s8>>s9;
80      if(s8==s9)
81      {
82          cout<<"equal"<<endl;
83      }
84      else
85      {
86          cout<<"not equal"<<endl;
87      }
88      //system("pause");
89      cin.get();
90      return 0;
91  }
92  void prinstString(const string& str){
93      cout << str << endl;
94  }
95  prinstString("asss");
```