

## 1 Source Code

```
#include<iostream>
#include<string>
using namespace std;
int main()
{
    string program[20] = {
        "#include<iostream>",
        "#include<string>",
        "using namespace std;",
        "int main()",
        "{",
        "    string program[20] = {",
        "    };",
        "    char inv=34;",
        "    for(int i=0;i<6;i++)",
        "        cout<<program[i]<<endl;",
        "    for(int i=0;i<19;i++)",
        "        cout<<program[18]<<inv<<program[i]<<inv<<program[19]<<endl;",
        "    cout<<program[18]<<inv<<program[19]<<inv<<endl;",
        "    cout<<program[6]<<endl;",
        "    for(int i=7;i<18;i++)",
        "        cout<<program[i]<<endl;",
        "    return 0;",
        "}",
        "    ",
        "    ",
        "    ",
    };
    char inv=34;
    for(int i=0;i<6;i++)
        cout<<program[i]<<endl;
    for(int i=0;i<19;i++)
        cout<<program[18]<<inv<<program[i]<<inv<<program[19]<<endl;
    cout<<program[18]<<inv<<program[19]<<inv<<endl;
    cout<<program[6]<<endl;
    for(int i=7;i<18;i++)
        cout<<program[i]<<endl;
    return 0;
}
```

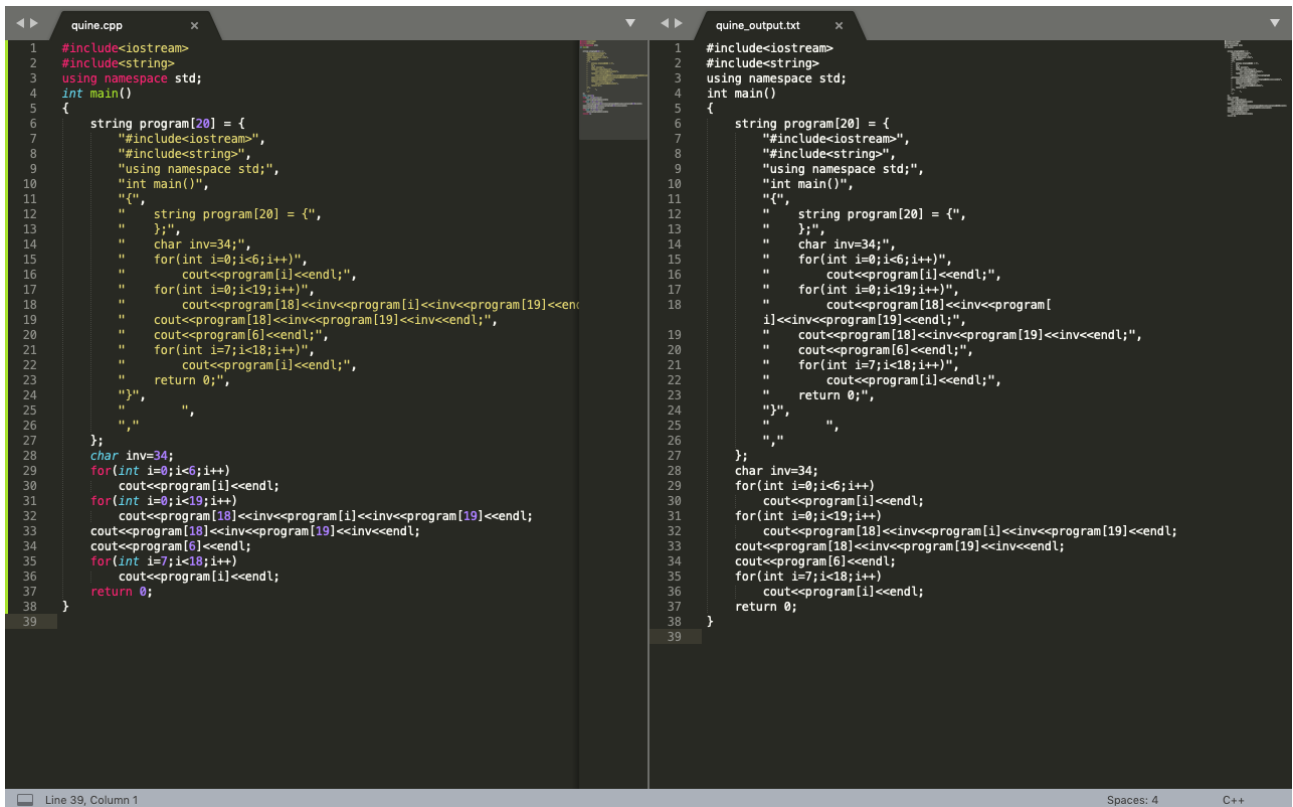
## 2 Input

No Input is Required. Just Running it will give the output

### 3 Output

```
#include<iostream>
#include<string>
using namespace std;
int main()
{
    string program[20] = {
        "#include<iostream>",
        "#include<string>",
        "using namespace std;",
        "int main()",
        "{",
        "    string program[20] = {",
        "    };",
        "    char inv=34;",
        "    for(int i=0;i<6;i++)",
        "        cout<<program[i]<<endl;",
        "    for(int i=0;i<19;i++)",
        "        cout<<program[18]<<inv<<program[i]<<inv<<program[19]<<endl;",
        "    cout<<program[18]<<inv<<program[19]<<inv<<endl;",
        "    cout<<program[6]<<endl;",
        "    for(int i=7;i<18;i++)",
        "        cout<<program[i]<<endl;",
        "    return 0;",
        "}",
        "    ",
        "    ",
    };
    char inv=34;
    for(int i=0;i<6;i++)
        cout<<program[i]<<endl;
    for(int i=0;i<19;i++)
        cout<<program[18]<<inv<<program[i]<<inv<<program[19]<<endl;
    cout<<program[18]<<inv<<program[19]<<inv<<endl;
    cout<<program[6]<<endl;
    for(int i=7;i<18;i++)
        cout<<program[i]<<endl;
    return 0;
}
```

## 4 ScreenShot



The screenshot displays a C++ IDE with two panels. The left panel, titled 'quine.cpp', shows the source code of a quine program. The right panel, titled 'quine\_output.txt', shows the output of the program, which is an exact copy of the source code. The status bar at the bottom indicates 'Line 39, Column 1', 'Spaces: 4', and 'C++'.

```
1 #include<iostream>
2 #include<string>
3 using namespace std;
4 int main()
5 {
6     string program[20] = {
7         "#include<iostream>",
8         "#include<string>",
9         "using namespace std;",
10        "int main()",
11        "{",
12        "    string program[20] = {",
13        "    };",
14        "    char inv=34;",
15        "    for(int i=0;i<6;i++)",
16        "        cout<<program[i]<<endl;",
17        "    for(int i=0;i<19;i++)",
18        "        cout<<program[18]<<inv<<program[i]<<inv<<program[19]<<endl;",
19        "    cout<<program[18]<<inv<<program[19]<<inv<<endl;",
20        "    cout<<program[6]<<endl;",
21        "    for(int i=7;i<18;i++)",
22        "        cout<<program[i]<<endl;",
23        "    return 0;",
24        "}",
25        " ",
26    };
27 };
28 char inv=34;
29 for(int i=0;i<6;i++)
30     cout<<program[i]<<endl;
31 for(int i=0;i<19;i++)
32     cout<<program[18]<<inv<<program[i]<<inv<<program[19]<<endl;
33 cout<<program[18]<<inv<<program[19]<<inv<<endl;
34 cout<<program[6]<<endl;
35 for(int i=7;i<18;i++)
36     cout<<program[i]<<endl;
37 return 0;
38 }
39
```

```
1 #include<iostream>
2 #include<string>
3 using namespace std;
4 int main()
5 {
6     string program[20] = {
7         "#include<iostream>",
8         "#include<string>",
9         "using namespace std;",
10        "int main()",
11        "{",
12        "    string program[20] = {",
13        "    };",
14        "    char inv=34;",
15        "    for(int i=0;i<6;i++)",
16        "        cout<<program[i]<<endl;",
17        "    for(int i=0;i<19;i++)",
18        "        cout<<program[18]<<inv<<program[i]<<inv<<program[19]<<endl;",
19        "    cout<<program[18]<<inv<<program[19]<<inv<<endl;",
20        "    cout<<program[6]<<endl;",
21        "    for(int i=7;i<18;i++)",
22        "        cout<<program[i]<<endl;",
23        "    return 0;",
24        "}",
25        " ",
26    };
27 };
28 char inv=34;
29 for(int i=0;i<6;i++)
30     cout<<program[i]<<endl;
31 for(int i=0;i<19;i++)
32     cout<<program[18]<<inv<<program[i]<<inv<<program[19]<<endl;
33 cout<<program[18]<<inv<<program[19]<<inv<<endl;
34 cout<<program[6]<<endl;
35 for(int i=7;i<18;i++)
36     cout<<program[i]<<endl;
37 return 0;
38 }
39
```

Figure 1: Code and Output