```
1 #include <iostream>
 2 #include <cstring>
 3 #include <fstream>
 5 using namespace std;
7 const int ROWS{ 200 }, COLUMNS{ 70 };
 9 void checkOpenFile(ifstream& fin)
10 {
        if (!fin)
11
12
        {
13
            cout << "File failed to open. ";</pre>
14
        }
        else
15
16
        {
            cout << "File successfully opened. ";</pre>
17
18
19 }
20
21 int fileScan(ifstream& fin, char pic[ROWS][COLUMNS])
22 {
23
        int row{}, column{}, linesUsed{};
24
        char piece{};
25
26
        fin >> linesUsed;
27
28
        while (fin >> row >> column >> piece)
29
30
            pic[row][column] = piece;
31
32
        return linesUsed;
33 }
34
35 void buildPic(char pic[ROWS][COLUMNS], int lines)
36 {
        for (int row{); row < lines; ++row)</pre>
37
38
            for (int col{); col < COLUMNS; ++col)</pre>
39
40
            {
41
                cout << pic[row][col];</pre>
42
43
            cout << '\n';</pre>
44
        }
45 }
46
47 int main()
48 {
        int outputLines{};
49
```

```
C:\Users\Ronal\source\repos\Print\Print.cpp
```

```
char pic[ROWS][COLUMNS]{};
51
        string file{};
52
        cout << "Enter filename: ";</pre>
53
54
        cin >> file;
55
56
        ifstream fin(file.c_str());
        checkOpenFile(fin);
57
58
        outputLines = fileScan(fin, pic);
59
        buildPic(pic, outputLines);
60
61
        return 0;
62 }
63
64
65 Enter filename: homer_mapped.txt
   File successfully opened.
67
68
69
70
71
72
73
74
75
76
77
78
79
80
81
82
83
84
85
86
87
    -hrr-
88
89
90
    */
91
92
93 Enter filename: st_basils_mapped.txt
94
   File successfully opened.
95
                                 Т
96
                                ( )
97
                               <===>
98
                                F|J
```

```
99
100
                             J|||F
101
                             F|||J
102
                            /\/ \/\
103
                            F++++J
104
                           J{}{|}{}F
105
                           F{}{|}{}J
                                            Τ
106
                        T J{}{}|{}F
107
              Т
                       /|\F/\/\|/\\J
             /:\
108
                      .'/|\\:=====F T ./;;;;;\
                    ///|||\\\""""" /x\T\;;;;;/
109
           ./:/:/.
          //:/:/\\\\\|///..[]...xXXXx.|====|
110
          \:/:/:T7 ::::::||[ ]|/xXXXXXx\||||
111
          ::.::.:A. `;:;;;;'=== ==\XXXXXXX/=====.
112
113
          `;""::/xxx\.|,|,|,| ( ) ( )| | | |.=..=.|
           :.:`\xxx/(_)(_)(_) _
114
           :T-'-.:"":|"""""|/ \ / \|====|=====
115
           .A."""||_|| ,. .. || | | |/\/\/\ | | ||
116
       :;:///\:::.'.| || || ||-| |-|/\/\+|+| | |
117
      ;:;;\///:::,='======'======/\/\=====.
118
     :;:::;"""::::;:|__..,_|========/||\|\====|
119
     :::::; | =:::;::: | ,;:::::
120
                                      =======
121
     ::142:::::(}:::::;::::::_
122
    */
123
124
    /*
    Enter filename: mickey_mapped.txt
126
    File successfully opened.
127
                           .d8888888bo.
128
                          .d8888888888b.
                         8888888888888b
129
130
                         8888888888888888
131
                         8888888888888888
132
                          Y888888888888888
                     ,od8888888888888
133
                         ```'Y888888888P'
134
 Y8P'
135
 'Y8888888b
136
 Y8888888b
137
 888888888.d888888b.
138
 d8b
 888888888888888888b
 8888_\ _
139
 d888888888888888888b
 .Y8P
 140
 `Y88888888888888
141
142
 888888888888P
143
 dPY888888888P'
144
 `Y888888P`
145
146
 jgs
147 /*
```