

```
1  #include <iostream>
2  #include <cstring>
3  #include <fstream>
4
5  using namespace std;
6
7  const int ROWS{ 200 }, COLUMNS{ 70 };
8
9  void checkOpenFile(ifstream& fin)
10 {
11     if (!fin)
12     {
13         cout << "File failed to open. ";
14     }
15     else
16     {
17         cout << "File successfully opened. ";
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 {
37     ofstream fout{ "pic.txt" };
38
39     for (int row{}; row < lines; ++row)
40     {
41         for (int col{}; col < COLUMNS; ++col)
42         {
43             fout << pic[row][col];
44         }
45         fout << '\n';
46     }
47 }
48
49 int main()
```

```
50 {  
51     int outputLines{};  
52     char pic[ROWS][COLUMNS]{};  
53     string file{};  
54  
55     cout << "Enter filename: ";  
56     cin >> file;  
57  
58     ifstream fin(file.c_str());  
59     checkOpenFile(fin);  
60     outputLines = fileScan(fin, pic);  
61     buildPic(pic, outputLines);  
62  
63     return 0;  
64 }  
65
```