

```
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     for (int row{}; row < lines; ++row)
38     {
39         for (int col{}; col < COLUMNS; ++col)
40         {
41             cout << pic[row][col];
42         }
43         cout << '\n';
44     }
45 }
46
47 int main()
48 {
49     int outputLines{};
```

```

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

```

```
63
64 /*
```

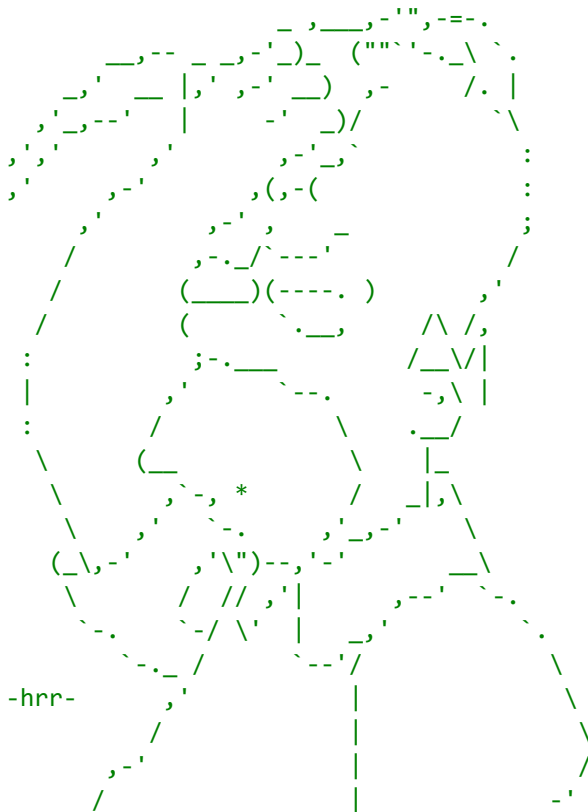
```
65 Enter filename: homer_mapped.txt
```

```
66 File successfully opened.
```

```

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87 -hrr-
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```



```
91 */
```

```
92 /*
```

```
93 Enter filename: st_basils_mapped.txt
```

```
94 File successfully opened.
```

```

95
96
97
98

```



[illegible]