

The working principle of code:

Traverse the array from top to bottom and left to right. For each uncolored element with a value of 1 in the array, use a Depth-First-Search to color all elements connected to it

```
0 0 0 0 6 6 0 0 0 10 0 12 0 15 15 15 0 0 20 20
1 0 4 0 0 0 0 0 10 10 0 0 0 0 15 0 0 19 0 0
0 4 4 4 4 4 4 0 10 0 11 0 14 0 0 0 0 0 17 0
0 0 0 0 4 4 0 0 0 0 11 0 0 0 17 17 17 0 17 17
2 0 0 2 0 0 0 0 0 0 11 11 11 0 17 17 17 0 17 17
2 2 2 2 0 7 0 0 0 0 0 0 0 16 0 0 17 17 0 17
2 2 0 0 0 0 8 0 0 0 0 13 13 0 0 0 0 17 0 17
0 2 0 0 0 8 8 0 0 0 0 13 13 0 0 0 0 17 17 17
0 0 5 5 5 0 0 9 0 9 0 0 13 0 0 0 17 17 17 0
3 0 5 0 5 0 9 9 9 9 0 0 13 0 18 0 0 0 0 21
```