

## 2darray.c

```
1  #include <stdio.h>
2
3  int main(){
4
5      int arr[3][4] = {
6          {1, 2, 3, 4},
7          {5, 6, 7, 8},
8          {9, 10, 11, 12}
9      };
10
11     for (int i = 0; i < 3; i++){
12         for (int j = 0; j < 4; j++){
13             printf("arr[%d][%d] = %d\n", i, j, arr[i][j]);
14         }
15     }
16
17     /*
18     Output:
19     arr[0][0] = 1
20     arr[0][1] = 2
21     arr[0][2] = 3
22     arr[0][3] = 4
23     arr[1][0] = 5
24     arr[1][1] = 6
25     arr[1][2] = 7
26     arr[1][3] = 8
27     arr[2][0] = 9
28     arr[2][1] = 10;
29     arr[2][2] = 11;
30     arr[2][3] = 12;
31     */
32
33     int ary [2][3];
34
35     ary[0][0] = 100;
36     ary[0][1] = 200;
37     ary[0][2] = 300;
38     ary[1][0] = 400;
39     ary[1][1] = 500;
40     ary[1][2] = 600;
41
42     for(int i = 0; i < 2; i++){
43         for(int j = 0; j < 3; j++){
44             printf("ary[%d][%d] = %d\n", i, j, ary[i][j]);
45         }
46     }
47
48     /* Output:
49     ary[0][0] = 100
50     ary[0][1] = 200
51     ary[0][2] = 300
```

```
52 |     ary[1][0] = 400
53 |     ary[1][1] = 500
54 |     ary[1][2] = 600
55 |     */
56 |
57 |     return 0;
58 | }
```