```
1 #include <stdio.h>
 2 int main(void)
 3 {
 4
        //variable declaraions
 5
        int iArray[3][5]; // 3 ROWS (0, 1, 2) AND 5 COLUMNS (0, 1, 2, 3, 4)
 6
        int int_size;
        int iArray_size;
 7
 8
        int iArray_num_elements, iArray_num_rows, iArray_num_columns;
 9
        int i, j;
10
11
       //code
        printf("\n\n");
12
13
14
        int_size = sizeof(int);
15
16
        iArray_size = sizeof(iArray);
        printf("Size Of Two Dimensional ( 2D ) Integer Array Is = %d\n\n",
17
         iArray_size);
18
19
        iArray_num_rows = iArray_size / sizeof(iArray[0]);
20
        printf("Number of Rows In Two Dimensional ( 2D ) Integer Array Is = %d\n\n",
          iArray_num_rows);
21
22
        iArray_num_columns = sizeof(iArray[0]) / int_size;
23
        printf("Number of Columns In Two Dimensional ( 2D ) Integer Array Is = %d\n
          \n", iArray_num_columns);
24
25
        iArray_num_elements = iArray_num_rows * iArray_num_columns;
26
        printf("Number of Elements In Two Dimensional ( 2D ) Integer Array Is = %d\n
          \n", iArray_num_elements);
27
28
        printf("\n\n");
29
        printf("Elements In The 2D Array : \n\n");
30
31
        // ***** PIECE-MEAL ASSIGNMENT *****
        // ***** ROW 1 *****
32
33
        iArray[0][0] = 21;
34
        iArray[0][1] = 42;
35
        iArray[0][2] = 63;
        iArray[0][3] = 84;
37
        iArray[0][4] = 105;
38
        // ***** ROW 2 *****
39
40
        iArray[1][0] = 22;
41
        iArray[1][1] = 44;
42
        iArray[1][2] = 66;
43
        iArray[1][3] = 88;
44
        iArray[1][4] = 110;
45
        // ***** ROW 3 *****
46
47
        iArray[2][0] = 23;
48
        iArray[2][1] = 46;
```

```
...ays\02-PiecemealAssignment\01-IntegerArray\IntegerArray.c
```

```
____2
```

```
iArray[2][2] = 69;
50
        iArray[2][3] = 92;
51
        iArray[2][4] = 115;
52
        // *** DISPLAY ***
53
54
        for (i = 0; i < iArray_num_rows; i++)</pre>
55
            printf("****** ROW %d ******\n", (i + 1));
56
57
            for (j = 0; j < iArray_num_columns; j++)</pre>
58
59
                printf("iArray[%d][%d] = %d\n", i, j, iArray[i][j]);
60
61
            printf("\n\n");
62
        }
63
64
       return(0);
65 }
66
67
```