

```
1  #include <stdio.h>
2  int main(void)
3  {
4      //variable declaraions
5      int iArray[] = { 9, 30, 6, 12, 98, 95, 20, 23, 2, 45 };
6      int int_size;
7      int iArray_size;
8      int iArray_num_elements;
9
10     float fArray[] = { 1.2f, 2.3f, 3.4f, 4.5f, 5.6f, 6.7f, 7.8f, 8.9f };
11     int float_size;
12     int fArray_size;
13     int fArray_num_elements;
14
15     char cArray[] = { 'A', 'S', 'T', 'R', 'O', 'M', 'E', 'D', 'I', 'C', 'O', 'M', 'P' };
16     int char_size;
17     int cArray_size;
18     int cArray_num_elements;
19
20     int i;
21
22     //code
23
24     // ***** iArray[] *****
25     printf("\n\n");
26     printf("In-line Initialization And Loop (for) Display Of Elements of Array\n\n");
27
28     int_size = sizeof(int);
29     iArray_size = sizeof(iArray);
30     iArray_num_elements = iArray_size / int_size;
31
32     for (i = 0; i < iArray_num_elements; i++)
33     {
34         printf("iArray[%d] (Element %d) = %d\n", i, (i + 1), iArray[i]);
35     }
36
37     printf("\n\n");
38     printf("Size Of Data type 'int' = %d bytes\n", int_size);
39     printf("Number Of Elements In 'int' Array 'iArray[]' = %d Elements\n", iArray_num_elements);
40     printf("Size Of Array 'iArray[]' (%d Elements * %d Bytes) = %d Bytes\n\n", iArray_num_elements, int_size, iArray_size);
41
42     // ***** fArray[] *****
43     printf("\n\n");
44     printf("In-line Initialization And Loop (while) Display Of Elements of Array\n\n");
45
46     float_size = sizeof(float);
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