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1 #include <stdio.h>
2
3 int main(void)
4 {
5     //variable declarations
6     int iArray[] = { 12, 24, 36, 48, 60, 72, 84, 96, 108, 120 };
7     float fArray[] = { 9.8f, 8.7f, 7.6f, 6.5f, 5.4f };
8     double dArray[] = { 1.222222, 2.333333, 3.444444 };
9     char cArray[] = { 'A', 'S', 'T', 'R', 'O', 'M', 'E', 'D', 'I', 'C', 'O', 'M',
10         'P', '\0' };
11
12     //code
13     printf("\n\n");
14     printf("Integer Array Elements And The Addresses They Occupy Are As Follows : \n\n");
15     printf("iArray[0] = %d \t At Address : %p\n", *(iArray + 0), (iArray + 0));
16     printf("iArray[1] = %d \t At Address : %p\n", *(iArray + 1), (iArray + 1));
17     printf("iArray[2] = %d \t At Address : %p\n", *(iArray + 2), (iArray + 2));
18     printf("iArray[3] = %d \t At Address : %p\n", *(iArray + 3), (iArray + 3));
19     printf("iArray[4] = %d \t At Address : %p\n", *(iArray + 4), (iArray + 4));
20     printf("iArray[5] = %d \t At Address : %p\n", *(iArray + 5), (iArray + 5));
21     printf("iArray[6] = %d \t At Address : %p\n", *(iArray + 6), (iArray + 6));
22     printf("iArray[7] = %d \t At Address : %p\n", *(iArray + 7), (iArray + 7));
23     printf("iArray[8] = %d \t At Address : %p\n", *(iArray + 8), (iArray + 8));
24     printf("iArray[9] = %d \t At Address : %p\n", *(iArray + 9), (iArray + 9));
25
26     printf("\n\n");
27     printf("Float Array Elements And The Addresses They Occupy Are As Follows : \n\n");
28     printf("fArray[0] = %f \t At Address : %p\n", *(fArray + 0), (fArray + 0));
29     printf("fArray[1] = %f \t At Address : %p\n", *(fArray + 1), (fArray + 1));
30     printf("fArray[2] = %f \t At Address : %p\n", *(fArray + 2), (fArray + 2));
31     printf("fArray[3] = %f \t At Address : %p\n", *(fArray + 3), (fArray + 3));
32     printf("fArray[4] = %f \t At Address : %p\n", *(fArray + 4), (fArray + 4));
33
34     printf("\n\n");
35     printf("Double Array Elements And The Addresses They Occupy Are As Follows : \n\n");
36     printf("dArray[0] = %lf \t At Address : %p\n", *(dArray + 0), (dArray + 0));
37     printf("dArray[1] = %lf \t At Address : %p\n", *(dArray + 1), (dArray + 1));
38     printf("dArray[2] = %lf \t At Address : %p\n", *(dArray + 2), (dArray + 2));
39
40     printf("\n\n");
41     printf("Character Array Elements And The Addresses They Occupy Are As Follows : \n\n");
42     printf("cArray[0] = %c \t At Address : %p\n", *(cArray + 0), (cArray + 0));
43     printf("cArray[1] = %c \t At Address : %p\n", *(cArray + 1), (cArray + 1));
44     printf("cArray[2] = %c \t At Address : %p\n", *(cArray + 2), (cArray + 2));
45     printf("cArray[3] = %c \t At Address : %p\n", *(cArray + 3), (cArray + 3));
46     printf("cArray[4] = %c \t At Address : %p\n", *(cArray + 4), (cArray + 4));
47     printf("cArray[5] = %c \t At Address : %p\n", *(cArray + 5), (cArray + 5));
48     printf("cArray[6] = %c \t At Address : %p\n", *(cArray + 6), (cArray + 6));
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48     printf("cArray[7] = %c \t At Address : %p\n", *(cArray + 7), (cArray + 7));
49     printf("cArray[8] = %c \t At Address : %p\n", *(cArray + 8), (cArray + 8));
50     printf("cArray[9] = %c \t At Address : %p\n", *(cArray + 9), (cArray + 9));
51     printf("cArray[10] = %c \t At Address : %p\n", *(cArray + 10), (cArray +
    10));
52     printf("cArray[11] = %c \t At Address : %p\n", *(cArray + 11), (cArray +
    11));
53     printf("cArray[12] = %c \t At Address : %p\n", *(cArray + 12), (cArray +
    12));
54     printf("cArray[13] = %c \t At Address : %p\n", *(cArray + 13), (cArray +
    13));
55
56     return(0);
57 }
58
59
60
```