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```
5
6 int main()
7▼{
8▼
        int arr[100], number_of_elements, *pntr, i;
10
        printf("Enter number of elements to be entered (max 100): \n");
        scanf("%d", &number_of_elements);
11
12
13
        if(number_of_elements > 100)
14▼
            printf("Elements are more than 100.\n");
15
16
            return(-1);
17
        }
18
        else
19▼
        {
20
            pntr = arr;
21
            for(i = 0; i < number_of_elements; i++)</pre>
22▼
                // please note that & is not needed here before pntr
23
24
                // Do you know why? If not, ask your friend or professor
25
                scanf("%d", pntr);
26
                pntr++;
27
                printf("current value of pntr is %p\n", (void *)pntr);
28
            }
29
30
            // reseting pntr to point to first element
31
            pntr = arr;
32
33
            printf("\nPrinting array elements with array index notation using arr\n");
            printf("arr in the beggining = %p\n", (void *)arr);
34
            for(i = 0; i < number_of_elements; i++)</pre>
35
36 ▼
37 ▼
                printf("%d ", arr[i]);
38
            }
            printf("\narr at end = %p", (void *)arr);
39
40
            printf("\n\nPrinting array elements with array index notation using pntr\n");
41
42
            printf("pntr in the beggining = %p\n", (void *)pntr);
43
            for(i = 0; i < number_of_elements; i++)</pre>
44▼
45 ▼
                printf("%d ", pntr[i]);
46
            }
47
            printf("\npntr at end = %p", (void *)pntr);
48
            printf("\n\nPrinting array elements with pointer and offset using arr\n");
49
50
            printf("arr in the beggining = %p\n", (void *)arr);
51
            for(i = 0; i < number_of_elements; i++)</pre>
52▼
            {
53
                printf("%d ", *(arr + i));
54
55
            printf("\narr at end = %p", (void *)arr);
56
57
            printf("\n\nPrinting array elements with pointer and offset using pntr\n");
            printf("pntr in the beggining = %p\n", (void *)pntr);
58
59
            for(i = 0; i < number_of_elements; i++)</pre>
60▼
            {
61
                printf("%d ", *(pntr + i));
62
            printf("\npntr at end = %p", (void *)pntr);
63
64
65
            // try uncommenting following six lines and see what is the output
            //printf("\nPrinting array elements by traversing an array with arr\n");
66
67
            //for(i = 0; i < number_of_elements; i++)</pre>
            //{
68
            // printf("%d ", *arr);
69
70
            // arr++;
71
            //}
```

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```
72
  73
              printf("\n\nPrinting array elements by traversing an array with pntr\n");
              printf("pntr in the beggining = %p\n", (void *)pntr);
  74
              for(i = 0; i < number_of_elements; i++)</pre>
  75
  76▼
                   printf("%d ", *pntr);
  77
  78
                   pntr++;
  79
  80
              printf("\npntr at end of traversing = %p\n", (void *)pntr);
  81
              printf("Please note that pntr has changed in this last technique\n");
  82
          }
  83 }
                                                                                                    Line: 83 Col: 2
1 <u>Upload Code as File</u> ☐ Test against custom input
                                                                                       Run Code
                                                                                                    Submit Code
```

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