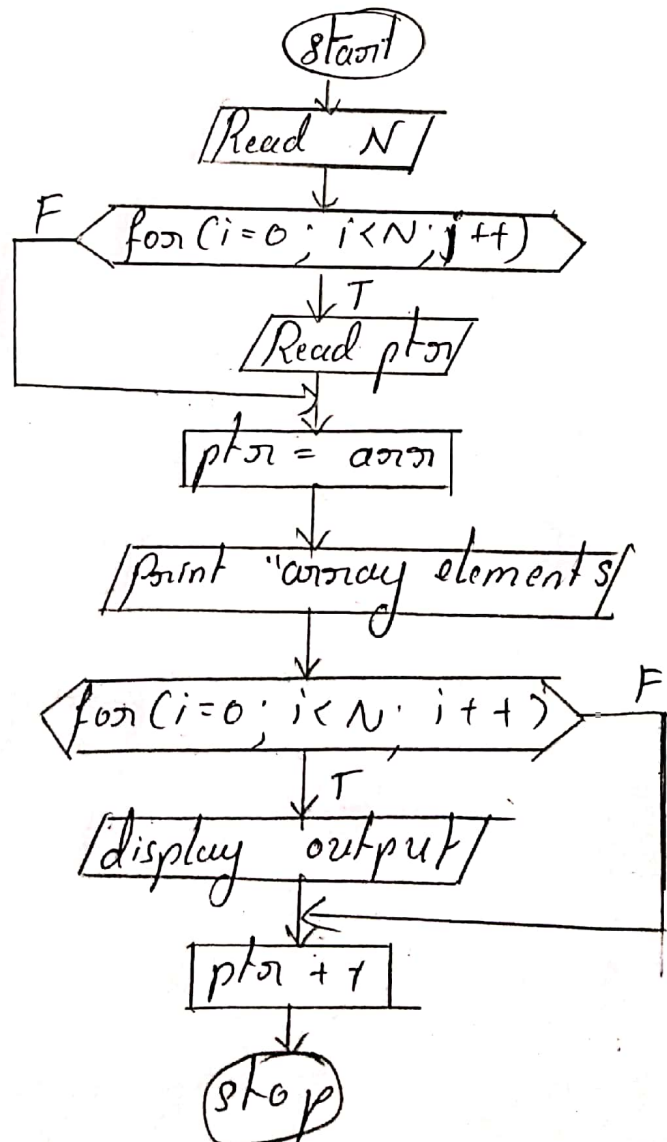Program to read and display elements of array using pointers

Algorithm

Step 1 : Start
Step 2 : Read N
Step 3 : Read for (i=0; i<N; i++)
          Read ptr
Step 4 : ptr = arr
Step 5 : for (i= display "array elements"
Step 6 : for (i=0; i<N; i++
          print array elements
          ptr ++
Step 7 : Stop

Flowchart

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Code, Compile & Run

Ide ✱ +

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C (gcc 6.3) ▼   🖺 🗑 Code gets autosaved every second   ⓘ ⬆ ⟋ ⚙

```c
1   #include <stdio.h>
2
3   #define MAX_SIZE 100 // Maximum array size
4
5   int main()
6   {
7       int arr[MAX_SIZE];
8       int N, i;
9       int * ptr = arr;    // Pointer to arr[0]
10
11      printf("Enter size of array: ");
12      scanf("%d", &N);
13
14      printf("Enter elements in array:\n");
15      for (i = 0; i < N; i++)
16      {
17          scanf("%d", ptr);
18
19          // Move pointer to next array element
20          ptr++;
21      }
22
23      // Make sure that pointer again points back to first array element
24      ptr = arr;
25
26      printf("Array elements: ");
27      for (i = 0; i < N; i++)
28      {
```

36:1   ↻

| Open File | ✓ Custom Input | Run |

Custom Input

```
4
3 5 8 2
```

Status Successfully executed   **Date** 2020-07-18 08:08:42   **Time** 0 sec   **Mem** 9.424 kB   ✕

Input

```
4
3 5 8 2
```

Output

```
Enter size of array: Enter elements in array:
Array elements: 3, 5, 8, 2,
```