

C program to find smallest and biggest element in an array using functions

Algorithm

Step 1 :- Start

Step 2 :- Input size

Step 3 :- Enter the integer numbers
for ($i=0; i < \text{size};$)
Input $\text{arr}[i]$

Step 4 :- $\text{large} = \text{largest}(\text{arr}, \text{size})$

Step 5 :- $\text{Small} = \text{smallest}(\text{arr}, \text{size})$

Step 6 :- Display the largest element
Output large

Step 7 :- Display the smallest element
Output small

Step 8 :- Stop

$\text{largest}(\text{int arr}[], \text{int size})$

Step 1 :- Enter

Step 2 :- $\text{temp} = \text{arr}[0]$

Step 3 :- for ($i=1; i < \text{size}; i++$)
if ($\text{arr}[i] > \text{temp}$)
 $\text{temp} = \text{arr}[i]$

Step 4 :- return temp

$\text{Smallest}(\text{int arr}[], \text{int size})$

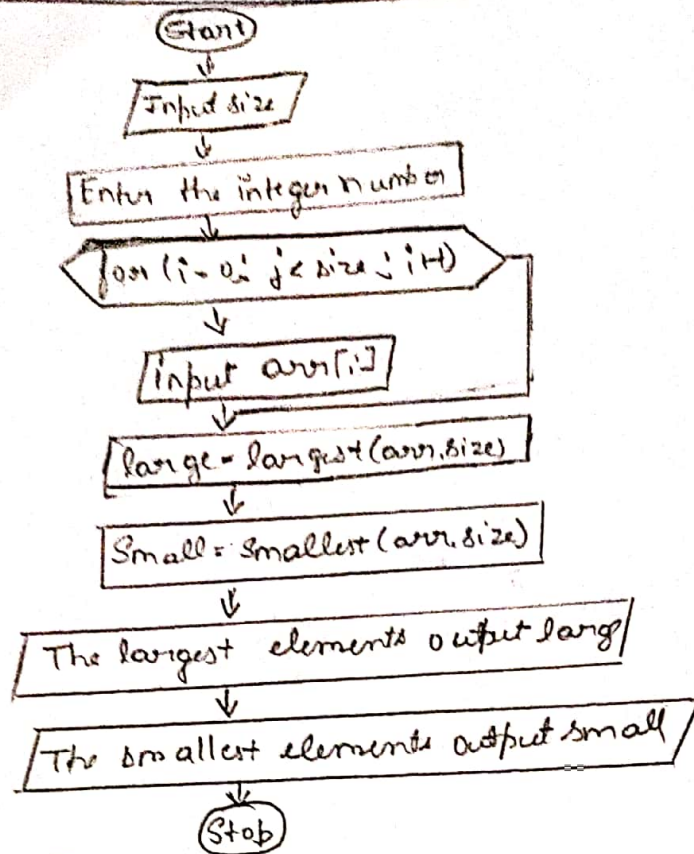
Step 1 :- Enter

Step 2 :- $\text{temp} = \text{arr}[0]$

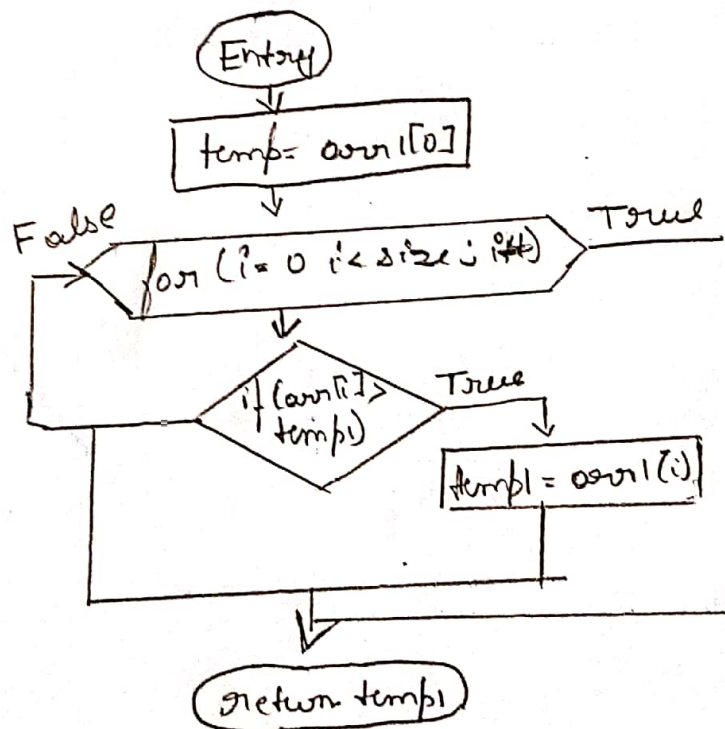
Step 3 :- for ($i=0; i < \text{size}; i++$)
if ($\text{temp} > \text{arr}[i]$)
 $\text{temp} = \text{arr}[i]$

Step 4 :- return temp

Flow chart



$\text{largest}(\text{int arr}[], \text{int size})$



Smallest (int arr[], int size)

