C program to find smallest and biggest element in an array.

Algorithm
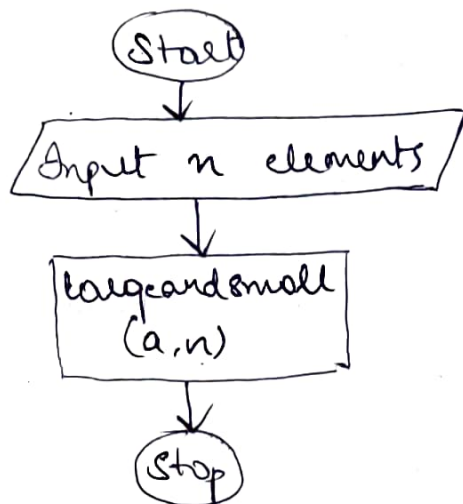
1. Start
2. Input n, elements
3. for $(i>0; i<n; i++)$
4. largeandsmall $(a, n);$
5. Stop

void largeandsmall (int a[], int n)

1. Start
2. Input i, large, small
3. large = small = a[0]
4. for $(i=1; i<n; i++)$
5. if (small > a[i])
   small = a[i]
6. if (a[i] > large)
   large = a[i]
7. Output large & small
8. Stop.

Flowchart

```
           ( Start )
              ↓
   / Input n elements /
              ↓
   | largeandsmall  |
   |    (a,n)        |
              ↓
          ( Stop )
```

void largeandsmall (int a[], int n)

```
           ( Start )
              ↓
  / Input i, large, small /
              ↓
  | large = small = a[0] |
              ↓
  < for (i=1; i<n; i++) >
              ↓
            / if \
           < small > a[i] >
              ↓
      | small = a[i] |
              ↓
            / if \
           < large < a[i] >
              ↓
      | large = a[i] |
              ↓
  / Output large and /
  /     small        /
              ↓
          ( Stop )
```