GAYATHRI

4AL19CS035

Algorithm

Step1: Start

Step2: Input n

Step3: Enter the elements

```
for (i=0; i<n; i++)
    input a[i]
```

Step4: If (a[0] < a[1])

```
small = a[0]
second smallest = a[i]
```

Else

```
Small = a[i]
second smallest = a[0]
```

Step5: for (i=2; i<n; i++)

```
if (a[i] < small)

    Second smallest = small
    small = a[i]
```

Else if (a[i] < second smallest)

```
second smallest = a[i]
```

Step6: Display Second smallest Element is
output second smallest

Step7: Stop

Flowchart

Start

Input n

Enter the Elements
Input a[p]

if(a[o]<a[i])

False → Small = a[i]
Second smallest = a[o]

True → Small = a[o]
Second smallest = a[i]

for(P=2; P<n; P++)

if(a[o]<small)

True → Second smallest = small
Small = a[P]

False → if(a[P]<secondsmall)

True → Second smallest = a[P]

False

Display Second smallest Element
output Second smallest

Stop