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Input

```
5
3
4
5
6
7
```

Output

```
Enter size of  array
5
Enter the elements of array
3   4   5   6   7
Square of the elements of array
9   16   25   36   49
The sum of square of elements of array is 135
```

Sum of square of elements of array

Program

```c
#include <stdio.h>
int main()
{
    int a[20], i, n, sum=0;
    printf(" Enter size of array \n");
    scanf("%d", &n);
    printf(" Enter elements of array \n");
    for(i=0; i<n; i++)
    {
        scanf("%d", &a[i]);
    }
    printf(" \n square of the elements of array \n");
    for(i=0; i<n; i++)
    {
        printf("%d \t", a[i] * a[i]);
        sum = sum + pow(a[i], 2);
    }
    printf("\n The sum of square of elements
                    of array  is %d\n", sum);
}
```

Algorithm –

step1 – start

step2 – Input n

step3 – Repeat for(i=0; i<n; i++)
                Input a[i]
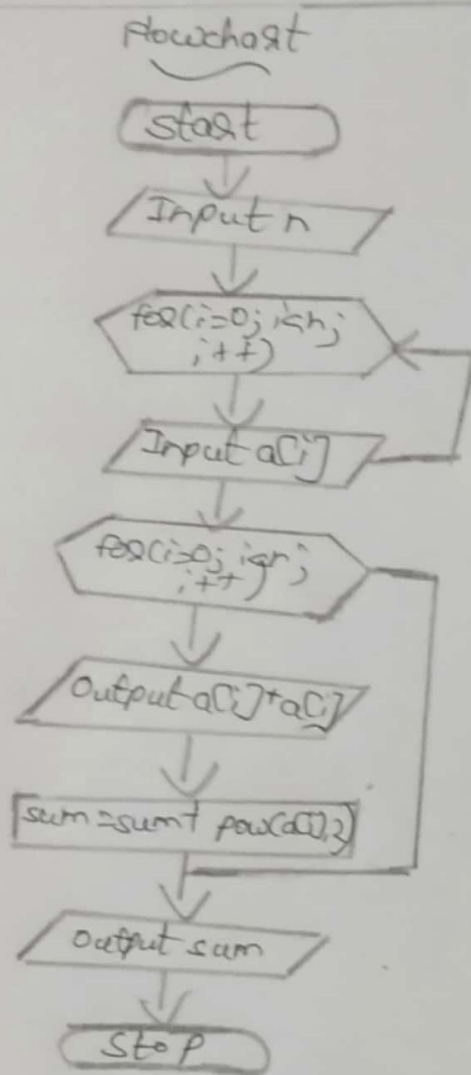   [End for]

step4 – Repeat for (i=0; i<n; i++)
                Input a[i]
                output a[i] * a[i]
                sum = sum + pow(a[i], 2)
                [End for]

<u>step5</u> – Output sum

<u>step6</u> – stop

Flowchart

```
                    start

                  Input n

                  for(i=0; i<n;
                       i++)

                  Input a[i]

                  for(i=0; i<n;
                       i++)

                Output a[i]*a[i]

                sum=sum+ pow(a[i],2)

                  Output sum

                   Stop
```

output

Enter size of array

5

Enter the elements of array

3 4 5 6 7

Square of the elements of array

9 16 25   36 49

the sum of square of elements of array is 135.