

## DAY 1 – DS Using C Programs

```
/*
Given five positive integers, find the minimum and maximum values that can be
calculated by summing exactly four of the five integers.
```

Sample Input:

```
a = [1,2,3,4,5]
```

Sample output:

```
10 14
```

Explanation:

Sum everything except 1, the sum is 2+3+4+5=14.

Sum everything except 2, the sum is 1+3+4+5=13.

Sum everything except 3, the sum is 1+2+4+5=12.

Sum everything except 4, the sum is 1+2+3+5=11.

Sum everything except 5, the sum is 1+2+3+4=10.

```
*/
```

```
#include <stdio.h>
```

```
#include <stdlib.h>
```

```
void main()
```

```
{
```

```
    int a[100], n, i, j;
```

```
    int sum, max = 0, min;
```

```
    printf("\nEnter the no. of array A[] elements: ");
```

```
    scanf("%d", &n);
```

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

```
    {
```

```
        printf("\nA[%d] = ", i);
```

```
        scanf("%d", &a[i]);
```

```
    }
```

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

```
    {
```

```
        sum = 0;
```

```
        for (j = 0; j < n; j++)
```

```
        {
```

```
            if (j != i) {
```

```
                sum += a[j];
```

```
                if(i == 0) {
```

```
                    min = sum;
```

```
                }
```

```
            }
```

```

    }

    if (max < sum)
        max = sum;

    if (min > sum)
        min = sum;
}

printf("\nThe Result is: \nMax = %d, Min = %d", max, min);

printf("\n");
}

```

## OUTPUT:

```

Enter the no. of array A[] elements: 5

A[0] = 1
A[1] = 2
A[2] = 3
A[3] = 4
A[4] = 5

The Result is:
Max = 14, Min = 10

E:\MCA\3 MCA\Data Structures In C\100 Days Code\ && gcc Day1.c -o Day1 && "e:
1

Enter the no. of array A[] elements: 5

A[0] = 2
A[1] = 4
A[2] = 6
A[3] = 8
A[4] = 10

The Result is:
Max = 28, Min = 20

```