

19. Display Missing Element from Unsorted Array

Aim: To find and display the missing element from a sequence in an unsorted array.

Algorithm:

1. Read n and array elements (1..n+1 expected).
2. Calculate sum of first (n+1) natural numbers.
3. Subtract array sum from expected sum → missing element.

C Program:

```
#include <stdio.h>

int main() {

    int arr[]={1,2,4,5,6}, n=5;

    int total=(n+1)*(n+2)/2, sum=0;

    for(int i=0;i<n;i++) sum+=arr[i];

    printf("Missing element: %d\n", total-sum);

    return 0;

}
```

OUTPUT:

Missing element: 3

RESULT:

The missing element from the unsorted array was correctly found.

