

**/\*C Program to implement Insertion sort**

**Input : 1. Size of the array**

**2. Array elements**

**Output : Sorted array elements in ascending order**

**\*/**

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

```
int main()
```

```
{
```

```
    int n, array[100], c, d, temp;
```

```
    printf("\n Enter the size of the array\n");
```

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

```
    printf("\n\n Enter the array elements \n" );
```

```
    for (c = 0; c < n; c++) {
```

```
        scanf("%d", &array[c]);
```

```
    }
```

```
    for (c = 1 ; c <= n - 1; c++) {
```

```
        d = c;
```

```
        while ( d > 0 && array[d] < array[d-1]) {
```

```
            temp      = array[d];
```

```
            array[d]  = array[d-1];
```

```
            array[d-1] = temp;
```

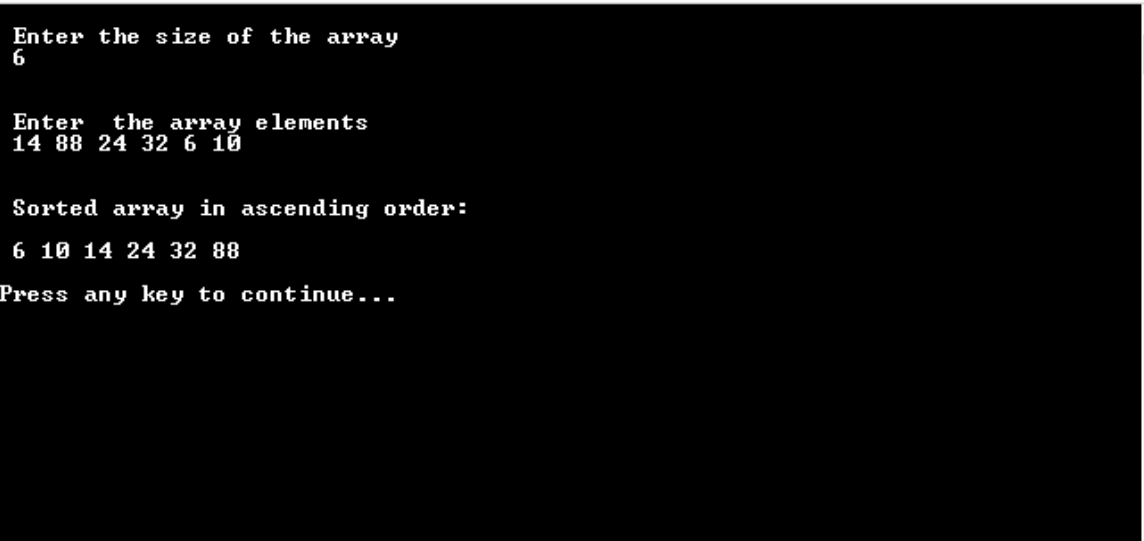
```
            d--;
```

```
        }
```

```
}

printf("\n\n Sorted array in ascending order:\n\n");
printf(" ");
for (c = 0; c <= n - 1; c++) {
    printf("%d ", array[c]);
}
printf("\n\n");
return 0;
}
```

### **Sample Input and Output:**



```
Enter the size of the array
6

Enter the array elements
14 88 24 32 6 10

Sorted array in ascending order:
6 10 14 24 32 88
Press any key to continue...
```