

27. Write a C program to arrange a series of numbers using insertion sort.

```
#include <stdio.h>

int main() {

    int a[] = {5, 2, 9, 1, 3}, n = 5;

    for (int i = 1; i < n; i++) {

        int key = a[i], j = i - 1;

        while (j >= 0 && a[j] > key)

            a[j + 1] = a[j--];

        a[j + 1] = key;

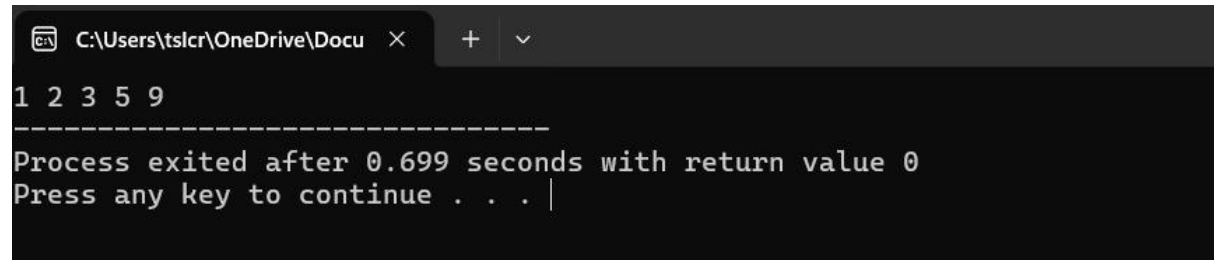
    }

    for (int i = 0; i < n; i++) printf("%d ", a[i]);

    return 0;

}
```

OUTPUT:



```
C:\Users\tslcr\OneDrive\Docu  ×  +  v

1 2 3 5 9
-----
Process exited after 0.699 seconds with return value 0
Press any key to continue . . . |
```