#include <stdio.h>

void insert(int a[], int n)

{

int i, j, temp;

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

temp = a[i];

j = i - 1;

while(j>=0 && temp <= a[j])

{

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

j = j-1;

}

a[j+1] = temp;

}

}

void printArr(int a[], int n)

{

int i;

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

printf("%d ", a[i]);

}

int main()

{

int a[] = { 12, 31, 25, 8, 32, 17 };

int n = sizeof(a) / sizeof(a[0]);

printf("Before sorting array elements are - \n");

printArr(a, n);

insert(a, n);

printf("\nAfter sorting array elements are - \n");

printArr(a, n);

return 0;

}

OUTPUT:

Before sorting array elements are -

12 31 25 8 32 17

After sorting array elements are -

8 12 17 25 31 32

--------------------------------

Process exited after 0.03358 seconds with return value 0

Press any key to continue . . .