#include <stdio.h>

void swap(int \* xp, int \* yp)

{

int temp = \* xp;

\* xp = \* yp;

\* yp = temp;}

void selectionSort(int arr[], int n)

{

int i, j, min\_idx;

for (i = 0; i < n - 1; i++) {

min\_idx = i;

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

if (arr[j] < arr[min\_idx])

min\_idx = j;

swap( & arr[min\_idx], & arr[i]);

}

}

int main()

{

int n, i;

printf("Enter the number of elements ");

scanf("%d",&n);

int a[n]; //array of n integers to be sorted

printf("Enter the elements ");

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

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

selectionSort(a, n); //calling the function to sort the array

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

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

return 0;

}