// Online C compiler to run C program online

#include <stdio.h>

void exchange(int \*p, int \*q)

{

    int t = \*p;

    \*p = \*q;

    \*q = t;

}

void Sortselect(int k[], int n)

{

    int min;

    // Shift boundary of the subarray that has not been sorted, one at a time

    for (int m = 0; m < n-1; m++)

    {

        // Within the unsorted array, look for the element with the minimum value

        min = m;

        for (int j = m+1; j < n; j++)

        {

          if (k[j] < k[min])

            min = j;

        }

        // Exchange the found minimum element with the first element

           if(min != m)

            exchange(&k[min], &k[m]);

    }

}

/\* Printing an array \*/

void printArray(int k[], int length)

{

    for (int m=0; m < length; m++)

    {

        printf("%d ", k[m]);

    }

    printf("\n");

}

// Driver program to test above functions

int main()

{

    int l;

    printf("State the length of the array");

    scanf("%d", &l);

    int k[l];

    printf("Put in the elements into the array");

    for(int m = 0; m < l; m++)

    {

        scanf("%d", &k[m]);

    }

    printf("Input array is:");

    printArray(k, l);

    Sortselect(k, l);

    printf("Sorted array: \n");

    printArray(k, l);

    return 0;

}