**Sort a given set of N integer elements using Selection Sort technique and compute its time taken. Run the program for different values of N and record the time taken to sort.**

#include <stdio.h>

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]){

int temp = arr[j];

arr[j] = arr[min\_idx];

arr[min\_idx] = temp;

}

}

}

void printArray(int arr[], int size)

{

int i;

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

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

printf("\n");

}

int main()

{

int arr[10] ;

int n;

int i;

printf("enter the number oif elements in the array:\n");

scanf("%d",&n);

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

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

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

}

selectionSort(arr, n);

printf("Sorted array: \n");

printArray(arr, n);

return 0;

}

