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Experiment No. 2

To implement Selection Sort And Compartive Analysis for large values of 'n'

Code:

#include <stdio.h>

#include <conio.h>

void selection(int arr[], int n)

{

int i, j, small;

for (i = 0; i < n-1; i++) // One by one move boundary of unsorted subarray

{

small = i; //minimum element in unsorted array

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

if (arr[j] < arr[small])

small = j;

// Swap the minimum element with the first element

int temp = arr[small];

arr[small] = arr[i];

arr[i] = temp;

}

}

void printArr(int a[], int n) /\* function to print the array \*/

{

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]);

clrscr();

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

printArr(a, n);

selection(a, n);

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

printArr(a, n);

return 0;

}

