**/BUBBLE SORT/**

#include<stdio.h>

#include<stdlib.h>

#include<alloc.h>

#include<dos.h>

#include<time.h>

void main()

{

clock\_t start,end;

int i,n,j,temp,k;

printf("\nEnter No of elements in the array:");

scanf("%d",&n);

start = clock();

int \*p=(int\*) malloc(n\*sizeof(int));

printf("Enter the elements of array to be sorted:");

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

{

\*(p+i)=rand();

}

printf("\nThe Elements of the unsorted array are:\n");

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

{

printf("%d\t",\*(p+i));

}

printf("\n");

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

{

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

{

if(\*(p+j)>\*(p+j+1))

{

temp=\*(p+j);

\*(p+j)=\*(p+j+1);

\*(p+j+1)=temp;

}

}

printf("\nArray after pass no %d:",i);

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

printf(" %d ",\*(p+k));

}

printf("\n\nThe Elements of the sorted array are(BY BUBBLE SORT):\n");

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

{

printf("%d\t",\*(p+i));

}

end = clock();

printf("\nThe time for the event was: %f",(end-start)/CLK\_TCK);

}