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Assignment No:- 5

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Class:- SE - Computer-B (SB3)

Roll No:- 65

Subject:- OOP

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#include<iostream>

using namespace std;

int n;

#define size 10

template<class T>

void sel(T A[size])

{

int i,j,min;

T temp;

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

{

min=i;

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

{

if(A[j]<A[min])

min=j;

}

temp=A[i];

A[i]=A[min];

A[min]=temp;

}

cout<<"\nSorted array:";

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

{

cout<<" "<<A[i];

}

}

int main()

{

int A[size];

float B[size];

int i;

int ch;

do

{

cout<<"\n\* \* \* \* \* SELECTION SORT SYSTEM \* \* \* \* \*";

cout<<"\n--------------------MENU-----------------------";

cout<<"\n1. Integer Values";

cout<<"\n2. Float Values";

cout<<"\n3. Exit";

cout<<"\n\nEnter your choice : ";

cin>>ch;

switch(ch)

{

case 1:

cout<<"\nEnter total no of int elements:";

cin>>n;

cout<<"\nEnter int elements:";

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

{

cin>>A[i];

}

sel(A);

break;

case 2:

cout<<"\nEnter total no of float elements:";

cin>>n;

cout<<"\nEnter float elements:";

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

{

cin>>B[i];

}

sel(B);

break;

case 3:

exit(0);

}

}while(ch!=3);

return 0;

}