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Assignment No. 07

Title : Sorting and Searching using STL

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//Program #include<iostream> #include<algorithm> using namespace std; int main()

{

int a[5];

char b[5]; float c[5]; int i;

cout<<"enter integers in array"<<endl; for(i=0;i<5;i++)

{

cin>>a[i];

}

sort(a,a+5);

cout<<"sorted array:"<<endl; for(i=0;i<5;i++)

{

cout<<a[i]<<endl;

}

int found=binary\_search(a,a+5,3); if(found==1)

cout<<"Element found in list"<<endl; else

cout<<"Element is not found in list"<<endl; cout<<"enter characters in array"<<endl; for(i=0;i<5;i++)

{

cin>>b[i];

}

sort(b,b+5);

cout<<"sorted array:"<<endl; for(i=0;i<5;i++)

{

cout<<b[i]<<endl;

}

char find =binary\_search(b,b+5,'a');

if(find==1)

cout<<"Element found in list"<<endl; else

cout<<"Element is not found in list"<<endl; cout<<"enter float values in array"<<endl; for(i=0;i<5;i++)

{

cin>>c[i];

}

sort(c,c+5);

cout<<"sorted array:"<<endl; for(i=0;i<5;i++)

{

cout<<c[i]<<endl;

}

float show=binary\_search(c,c+5,0.8); if(show==1)

cout<<"Element found in list"<<endl; else

cout<<"Element is not found in list"<<endl; return 0;

}

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**OUTPUT**:

enter integers in array 6 5 8 9 3

sorted array:

3

5

6

8

9

Element found in list enter characters in array A W X e k

sorted array:

A W X

e k

Element is not found in list enter float values in array

0.3 6.78 9.99 5.6 3.4

sorted array:

0.3

3.4

5.6

6.78

9.99

Element is not found in list

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