#include <iostream>

using namespace std;

//selection sort is apply on binnary search

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SECTION BATCH#3 A

ASSIGNMENT DATASTRUCTURE

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int binarysearch(int ra[5],int size,int searchingvalue) //called function

{

//sort(ra,ra+5); //array must be sorted if not u can use sort funtion

int low=0;

int high=size-1;

int mid;

while(low<=high)

{

mid=(low+high)/2;

if(searchingvalue==ra[mid])

{

return mid;

}

else if(searchingvalue>ra[mid])

{

low=mid+1;//update low

}

else

{

high=mid-1;

}

}

return -1;

}

void main()

{

int a[5];

cout<<"enter values";

for(int i=0;i<5;i++)

{

cin>>a[i];

}

//////////////////////////////////////////

int min;

int temp;

int pos=0;

for(int j=0;j<5;j++)

{

min=a[j];

pos=j;

for(int k=j+1;k<5;k++)

{

if(a[k]<min)

{

min=a[k];

pos=k;

}

}

temp=a[j];

a[j]=a[pos];

a[pos]=temp;

}

cout<<"selection values are";

for(int i=0;i<5;i++)

{

cout<<a[i]<<endl;

}

int uservalue;

cout<<"for binary search enter value";

cin>>uservalue;

int result=binarysearch(a,5,uservalue); //passing array calling

if(result>=0)

{

cout<<"\n\nThe no="<<a[result]<<"was found at the element with index ="<<result<<endl;

}

else

{

cout<<"Number was not found"<<endl;

}

getchar();

getchar();

//return 0;

}