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SE-C Comp,Viit,Pune

***CODE:***

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#include<iostream>

using namespace std;

#define SIZE 9

int ternarySearch(int \*arr,int element,int size){

int ub=size-1,lb=0,mid1,mid2;

while(lb<=ub){

//cout<<lb<<" "<<ub<<endl;

mid1=lb+(ub-lb)/3;

if(arr[mid1]==element)

return mid1;

mid2=ub-(ub-lb)/3;

if(arr[mid2]==element)

return mid2;

if(arr[mid2]<element)

lb=mid2+1;

else if(arr[mid1]>element)

ub=mid1-1;

else{

lb=mid1+1;ub=mid2-1;

}

}

return -1;

}

int main(){

int arr[]={9,10,11,23,33,45,46,67,78};

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

cout<<ternarySearch(arr,arr[i],SIZE)<<" ";

cout<<endl;

return 0;

***Output:***

