#include<iostream>

using namespace std;

int swap(int \*arr,int i,int j)

{

int t;

t=arr[i];

arr[i]=arr[j];

arr[j]=t;

return 0;

}

int partition(int \*arr,int l,int r)

{

int i=l-1,pivot=arr[r];

for(int j=l;j<r;j++)

{

if(arr[j]<=pivot)

{

++i;

swap(arr,i,j);

}

}

swap(arr,i+1,r);

return i+1;

}

void quicksort(int \*arr,int l,int r,int k)

{

int pi=partition(arr,l,r);

if(pi+1==k)

{

cout<<"Kth smallest ele is: "<<arr[pi];

exit(0);

}

if(pi+1>k)

{

quicksort(arr,l,pi-1,k);

}

if(pi+1<k)

{

quicksort(arr,pi+1,r,k);

}

}

int main()

{

int n,k;

cin>>n;

int arr[n];

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

{

cin>>arr[i];

}

cout<<"Enter k(smallest) to find:";

cin>>k;

quicksort(arr,0,n-1,k);

}

A screenshot of a computer

Description automatically generated with medium confidence