Find points in an array where left-sum==right-sum

#include<iostream>

using namespace std;

int main()

{

int a[10],n,lsum=0,rsum=0,pos=0;

cout<<"Enter the number of elements in the array: ";

cin>>n;

cout<<"Enter the array elements\n";

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

cin>>a[i];

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

{

lsum = 0;

rsum = 0;

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

{

lsum += a[j];

}

for(int k=i+1;k<n;k++)

{

rsum += a[k];

}

if(lsum == rsum)

{

pos = i;

}

}

cout<<"The element that divides the array into two equal sums is: "<<a[pos];

return 0;

}