Rotate an array by d elements

#include<iostream>

using namespace std;

int main()

{

int a[10],n,temp,num,pos;

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

cin>>n;

cout<<"Enter the array elements: ";

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

cin>>a[i];

cout<<"Enter the element, by which you want to rotate the array: ";

cin>>num;

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

{

if(a[i] == num)

{

pos = i;

break;

}

}

for(int i=0;i<pos+1;i++)

{

temp = a[0];

for(int j=0;j<n-1;j++)

{

a[j] = a[j+1];

}

a[n-1] = temp;

}

cout<<"The rotated array is: ";

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

cout<<a[i]<<" ";

return 0;

}