Segregate Even and Odd numbers

#include<iostream>

using namespace std;

int main()

{

int a[10],n;

int b[10],k=0;

cout<<"Enter the number of elements ";

cin>>n;

cout<<"Enter the array elements ";

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

cin>>a[i];

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

{

if(a[i]%2 == 0)

{

b[k] = a[i];

k++;

}

}

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

{

if(a[i]%2 != 0)

{

b[k] = a[i];

k++;

}

}

cout<<"The segregated array with even numbers appering in the front is ";

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

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

return 0;

}