Segregate 0s and 1s

#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 either 0 or 1 ";

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

cin>>a[i];

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

{

if(a[i] == 0)

k++;

}

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

{

b[i] = 0;

}

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

b[i] = 1;

cout<<"The segregated array is ";

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

cout<<b[i]<<" ";

return 0;

}