```
#include<iostream>
#include<stdlib.h>
#include<omp.h>
using namespace std;
void bubble(int *, int);
void swap(int &, int &);
void bubble(int *a, int n)
  for( int i = 0; i < n; i++ )
    int first = i \% 2;
    #pragma omp parallel for shared(a,first)
    for( int j = first; j < n-1; j+=2)
       if( a[ j ] > a[ j+1 ] )
         swap( a[ j ], a[ j+1 ] );
       }
    }
  }
}
void swap(int &a, int &b)
{
  int test;
  test=a;
  a=b;
  b=test;
}
int main()
  int *a,n;
  cout<<"\n enter total no of elements=>";
  cin>>n;
  a=new int[n];
  cout<<"\n enter elements=>";
  for(int i=0;i<n;i++)</pre>
    cin>>a[i];
  bubble(a,n);
```

```
cout<<"\n sorted array is=>";
for(int i=0;i<n;i++)
{
   cout<<a[i]<<endl;
}
return 0;
}</pre>
```