EvenOddArray

Construct an array b[] of alternating even and odd integers from an unsorted array a[] of length len without changing the relative order of the even or odd numbers as they appear in a[]. You may assume that the array b[] will be the same length as a[].

Start with an even number. If there are more evens than odds, then b[] should end with a sequence of even numbers. Likewise, if there are more odds than evens, then b[] should end with a sequence of odd numbers.

```
void even odd(int a[], int b[], int len);
```

Files We Give You: A makefile and a sample main program (evenodd.cpp) to test your solution. The executable file created by a successful build will be named evenodd.

File You Must Submit: Place your solution code in a file named solution.cpp. This will be the only file that you submit.

Examples

```
Input: a[] = {1, 2}, len = 2
Output: b[] = {2, 1}

Input: a[] = {1, 2, 3, 4}, len = 4
Output: b[] = {2, 1, 4, 3}

Input: a[] = {1, 2, 4, 6}, len = 4
Output: b[] = {2, 1, 4, 6}

Input: a[] = {1}, len = 1
Output: b[] = {1}
```