We given by n – size of queue(maybe not queue, I forgot, but we can use any container), and then sequence of numbers. Sort it in this way: if number is even, it’ll go to start of queue. On the other hand, if number is odd, it’ll go to end of queue;

Test cases:

Input:

5

1 2 3 4 5

Output:

2 4 5 3 1

Input:

6

7 1 4 2 8 5

Output:

4 2 8 5 1 7

I solve it just creating two vectors, for even and odd numbers. Then cout even vector, reverse odd vector and reverse it.