1. Given an array, manipulate the array in a way that the odd positions hold the values in an ascending order and even positions hold the values in a descending order.

|  |  |
| --- | --- |
| 7  1 3 5 2 8 6 9 | 1 9 2 8 3 6 5 |
| 9  1 -1 3 5 9 0 0 7 9 | -1 9 0 9 0 7 1 5 3 |

2. Given an array, find the length of the longest increasing contagious subsequence in that array.

|  |  |
| --- | --- |
| 7  1 3 5 2 8 6 9 | 3  1 3 5 |
| 9  1 -1 3 5 9 0 0 7 9 | 4  -1 3 5 9 |