**Function Description**

A sequence of size **N** will be provided, find the the longest sub-sequence of elements that is first increasing and then decreasing.

**Input Format**

The input will be provided as space seperated integers.

**Output Format**

Display the length of the sub-sequence in the first line of ouput.

Display the sub-sequence in the second line of ouput.

**Constraints**

1<=**N<=10^3**

**Sample Input**

0 8 4 12 2 10 6 14 1 9 5 13 3 11 7 15

**Sample Output**

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[0, 8, 12, 10, 9, 5, 3]