Intermediate Exercise – Route Planner

# Challenge

You will be given a list of integers, they will be the height of a peak from ground level (1 = 100m). The peaks will appear in a single line as you travel from point A to B.

Rules:

* You don’t have to climb every peak. But you want to climb as many peaks as possible
* You only want to increase your altitude as going up and down would be too exhaustive.
* There is no going backwards.

There can be more than one possible output.

# Example

Input:

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

Output

0 2 6 9 11 15

Challenge Inputs:

1 2 2 5 9 5 4 4 1 6

4 9 4 9 9 8 2 9 0 1

0 5 4 6 9 1 7 6 7 8

2 1 7 12 12 10 8 9 2 20 19 20 17 5 19 0 11 5 20

1 2 20 13 6 15 16 0 7 9 4 0 4 6 7 8 10 18 14 10 17 15 19 0 4 2 12 6 10 5 12