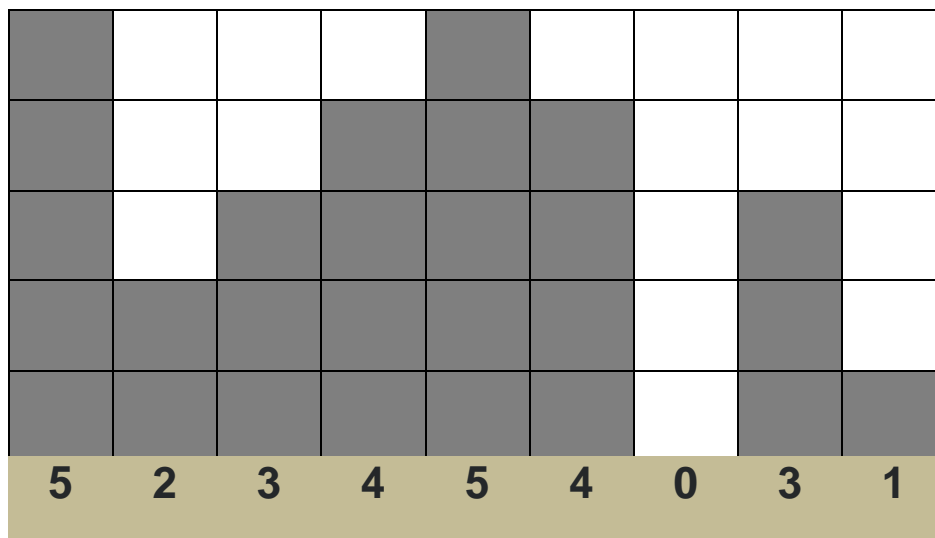
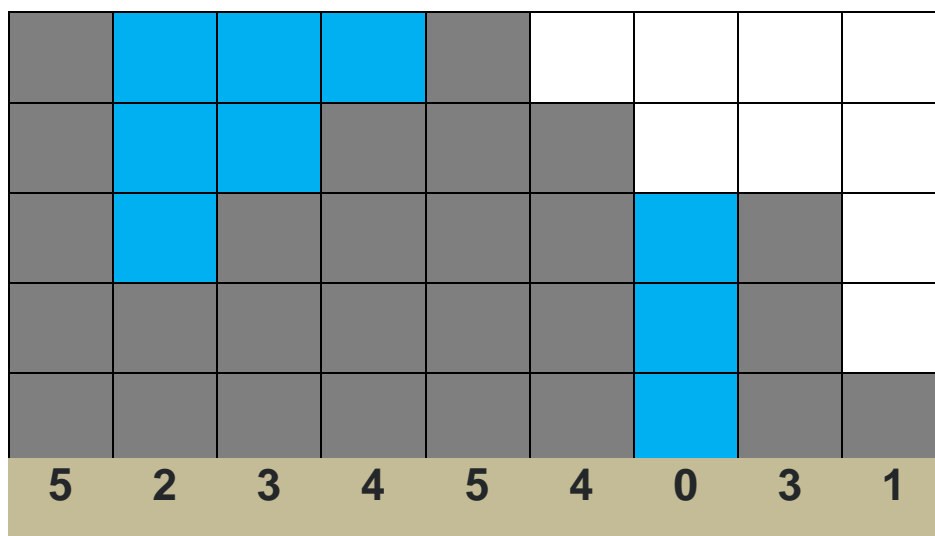


**Task:** There is a landscape with hills and pits which have similar square shape. Each position in this landscape has a specified height. Max number of positions is 32000. Height is between 0 and 32000.

For example: the first position has height 5, the second position has height 2. The landscape can be presented as a collection of heights. {5,2,3,4,5,4,0,3,1}



When rain happens, landscape is filled with water. Water is collected inside pits only between hills. For example: collected 9 squares of water.



You need to:

- implement an application which calculates amount of collected water for any landscapes. Water calculator should implement method **long calculateWaterAmount(int[] landscape)**
- validate correctness of landscape
- cover this application with tests (TDD)
- use maven to build the application