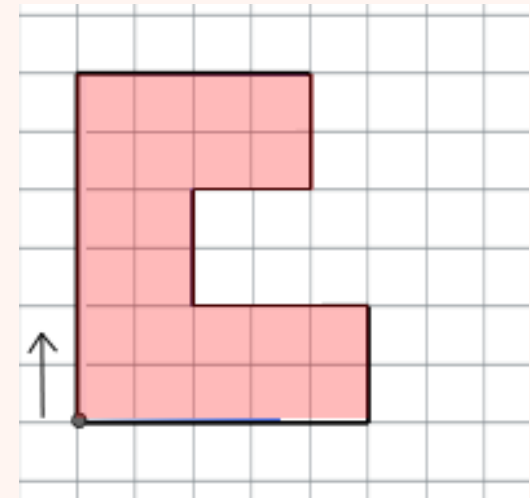


Level 4: Pockets

Catalysts

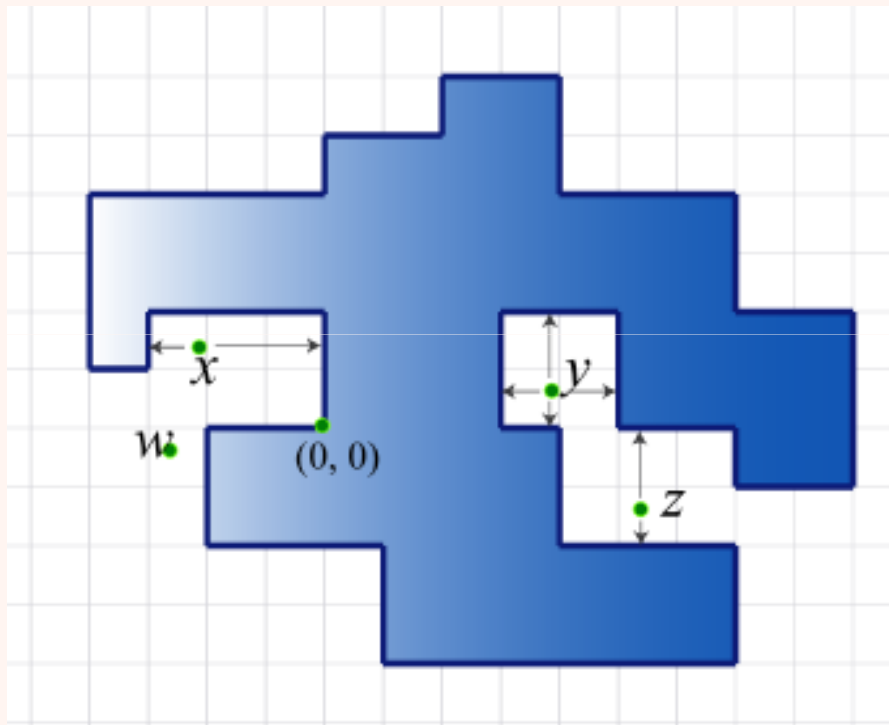
- During his walk, Jim's trail forms pockets.
- A point **p** is said to be in a pocket if it is not inside the polygon, and at least one of the following two conditions holds.
 - There are boundary points directly both east and west of **p**; or
 - There are boundary points directly both north and south of **p**.
- Input: same as in Level 1
- Output: **D RA A P**
- Example (the red area is **A**):
 - Input: 9 F 6 R 1 F 4 RFF 2 LFF 1 LFFFR 1 F 2 R 1 F 5
 - Output: 26 30 22 4



Level 4: Pocket Examples

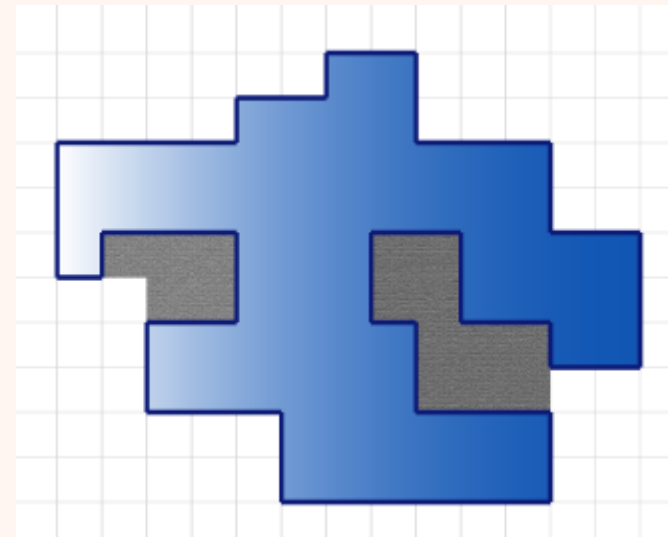
Catalysts

- To make the definition of pockets more clear, some examples:.



The points x , y and z are inside pockets,
The point w is not inside a pocket

The pockets are marked in grey



Level 4: Pockets

Catalysts

- Input: same as in Level 1
- Output: **D RA A P**
- Example (the grey area is **P**):
 - Input: 9 F 6 R 1 F 4 RFF 2 LFF 1 LFFFR 1 F 2 R 1 F 5
 - Output: 26 30 22 4

