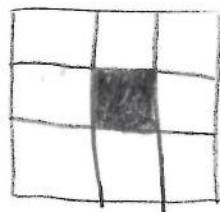


Pass I)

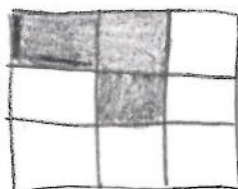
Case 1

- No labelled neighbours
 - Give this pixel the next free label



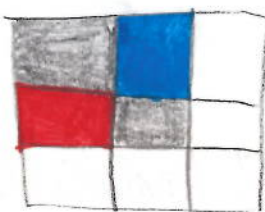
Case 2

- One or more neighbours with the same label
 - Give this pixel the same label



Case 3

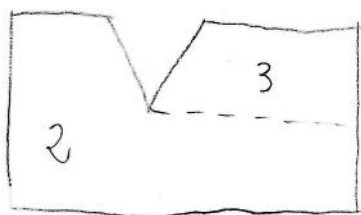
- Two or more labels with different labels



Pass II)

- + first decide the new labels
- labels need to be reordered to give a sensible set of labels. e.g. 0 for background, 1, 2, 3 for regions
- pass through the image reassigning labels.
- relabel the inconsistent labels according to an equivalence table

↙ (we can find the sets of labels that ~~are~~ are equivalent recorded here)



after 2nd
phase →

