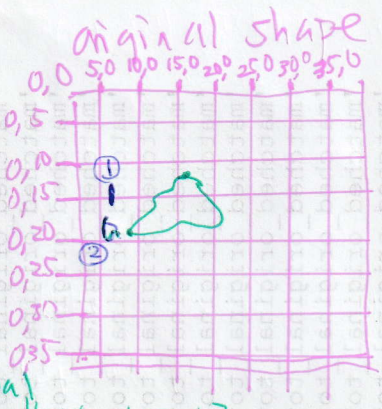
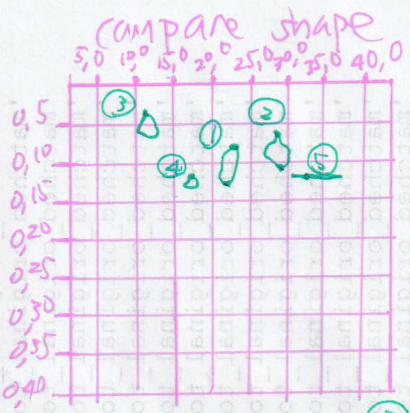
find_direct_neighbors





compare shape is above original shape.

orig_y smallest y > comp_smallest_y

original
smallest y = 12
largest y = 18
smallest_x = 9
largest_x = 21

① smallest y = 8
largest y = 13

③ smallest_y = 7
largest_y = 11

③ smallest_y = 3
largest_y = 7

comp_largest y has to be greater than or equal to orig_smallest_y to be candidate for original shape's neighbor.

~~comp_smallest_y~~

④ smallest_y = 12
largest_y = 13.

⑤ smallest_y = 12
largest_y = 12

(orig_neighbor_top = orig_smallest_y - 1)

~~If orig_smallest_y > comp~~ - orig_neighbor_top

If comp_smallest_y <= ~~orig_smallest_y~~:

If comp_largest_y >= ~~orig_smallest_y~~ orig_neighbor_top

~~comp is a~~ compare shape ~~is a cand~~ may be original shape's neighbor.

① smallest_X = 21
largest_X = 25

② smallest_X = 27
largest_X = 30

③ smallest_X = 10
largest_X = 13

④ smallest_x = 16
largest_x = 17

⑤ smallest_X = 31
largest_X = 37

① smallest_y = 13
largest_y = 16
smallest_x = 6
largest_x = 6

② smallest_y = 17
largest_y = 20
smallest_x = 5
largest_x = 7