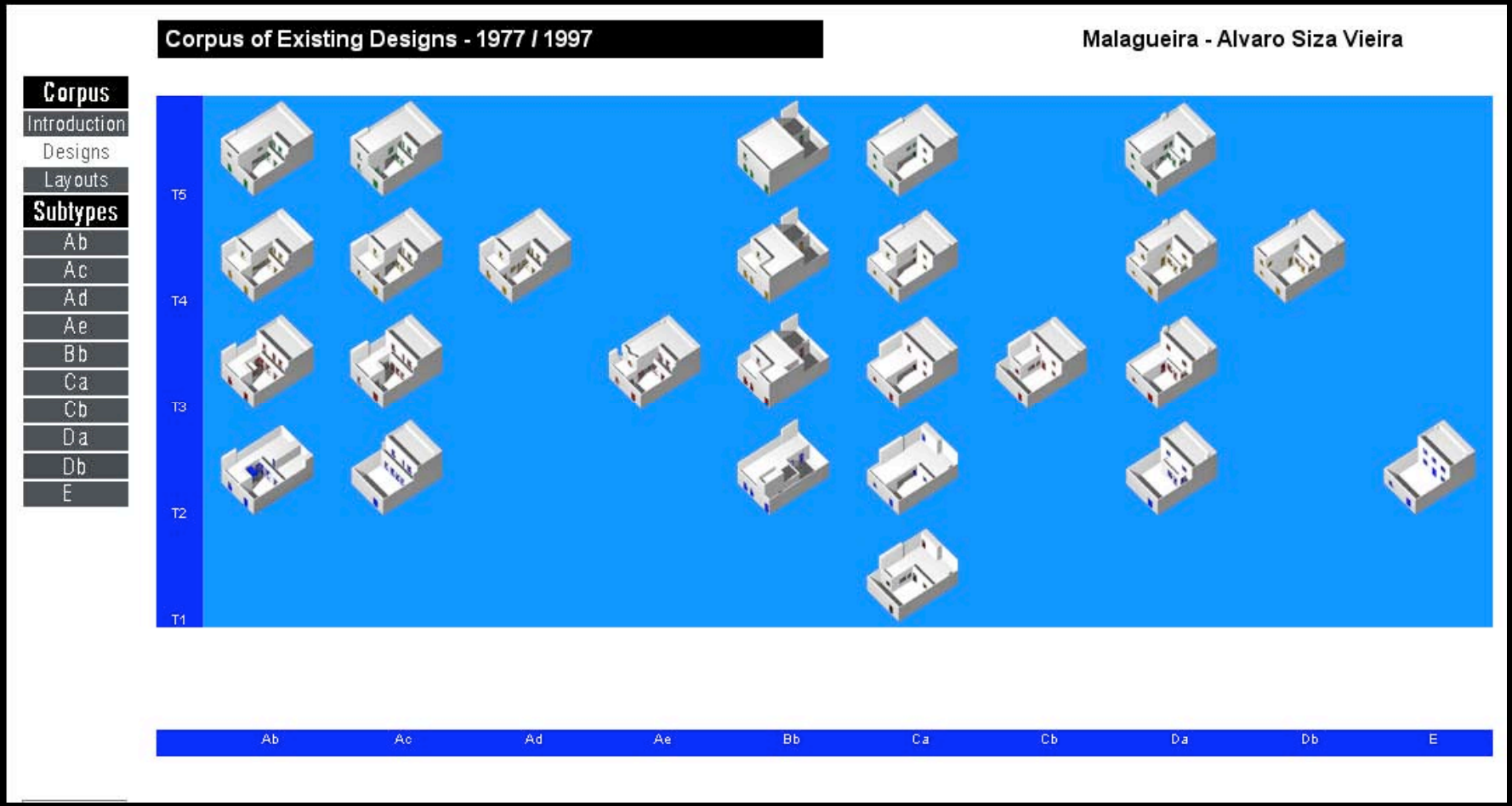
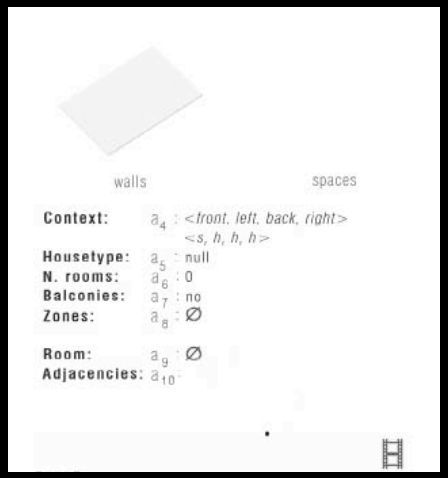
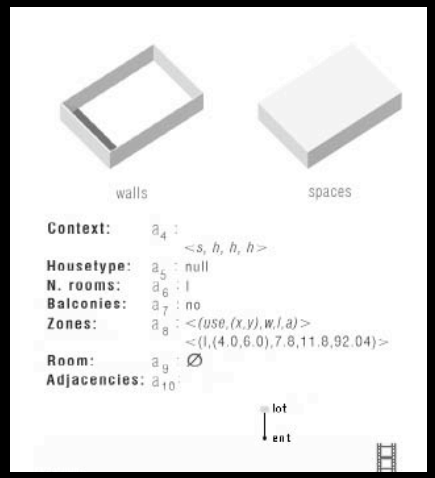
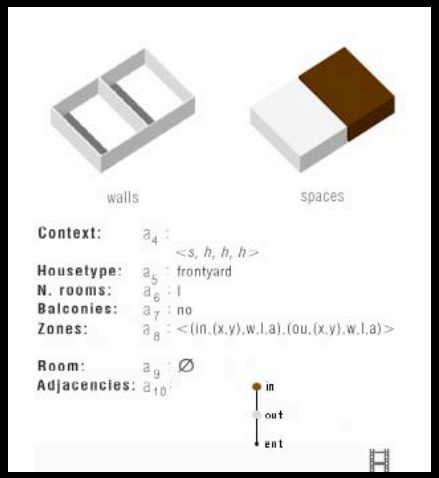
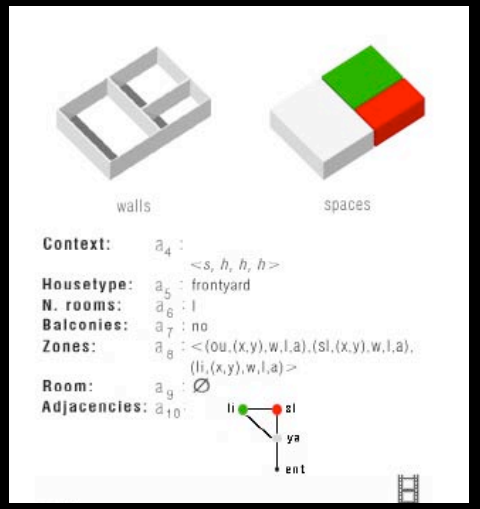


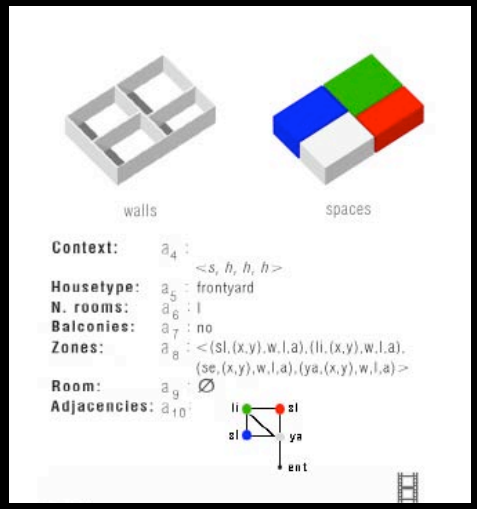
Malagueira housing designs of Alvaro Siza (Jose Duarte)





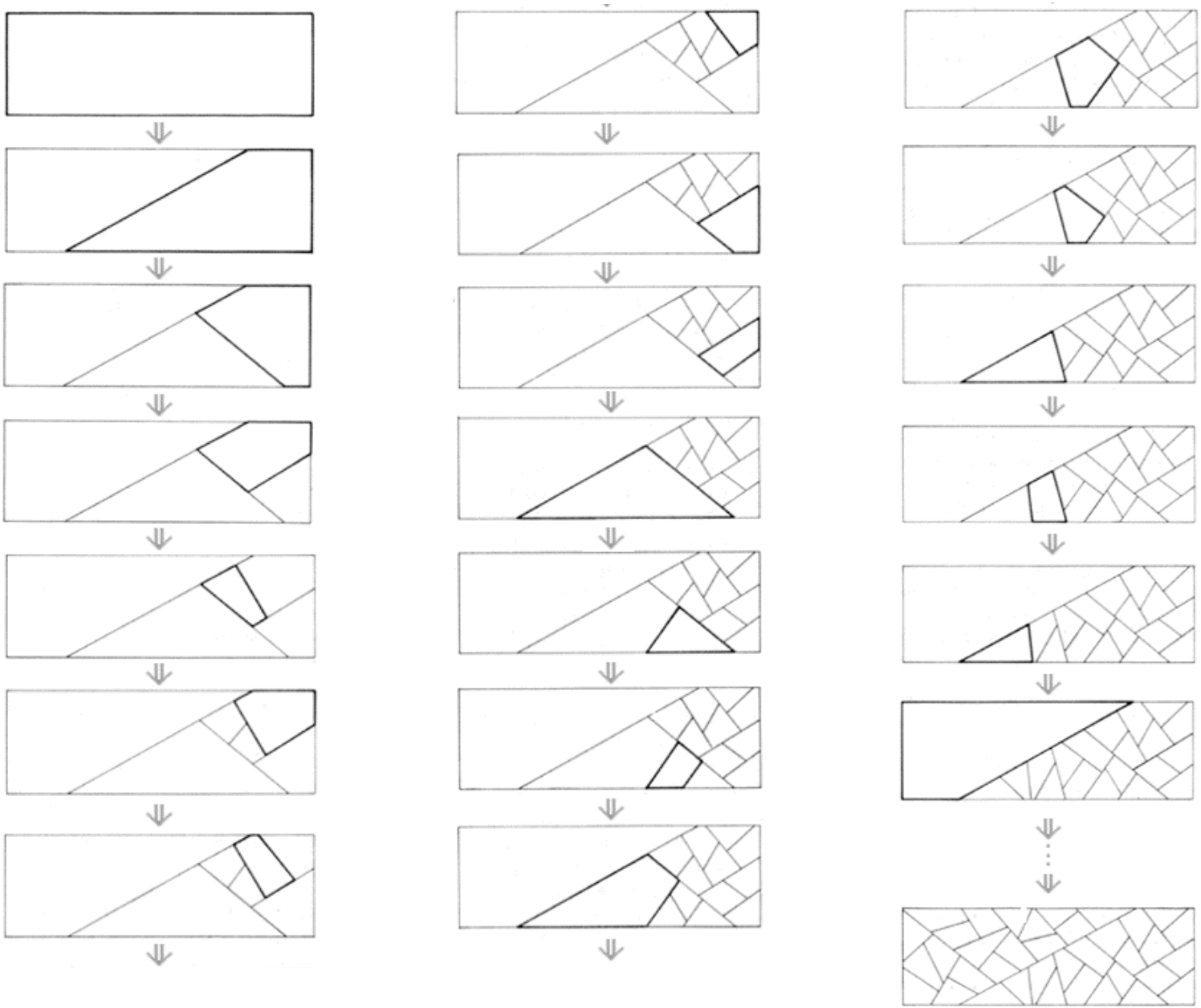






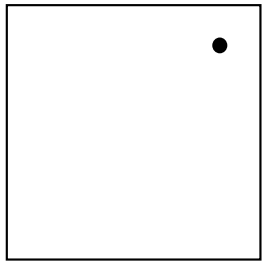
. . . ⇐

part of a computation
in Siza grammar

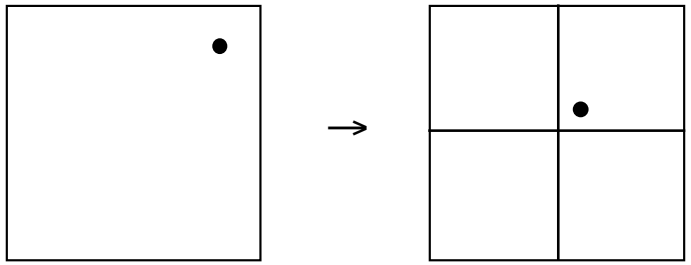


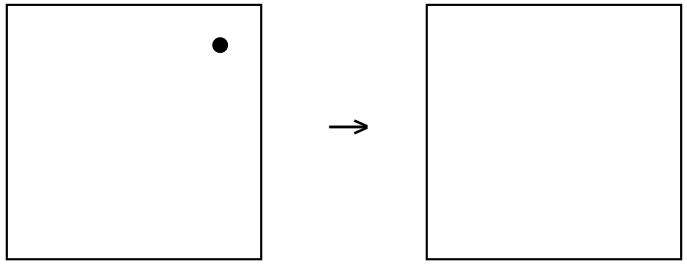
derivation of an ice-ray design

Question 1



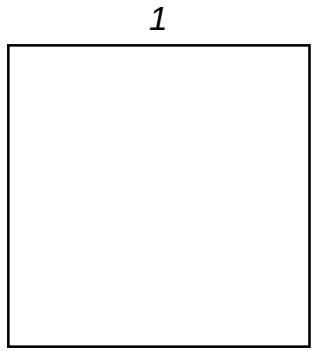
initial shape



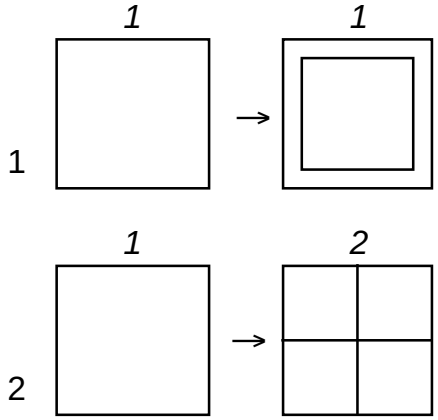


rules

Question 2



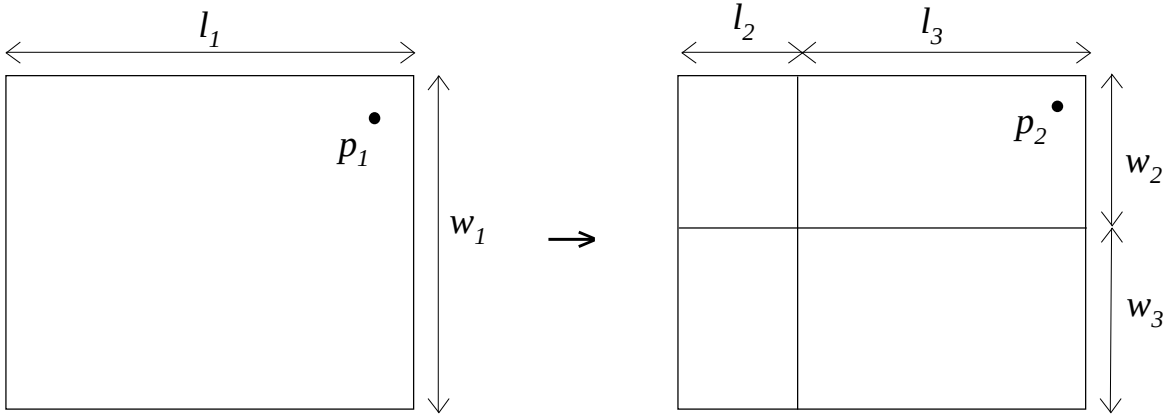
initial shape



rules

final state: *2*

Question 3



Conditions on variables:

l_1 and w_1 are the sides of a rectangle
$l_1, l_2, l_3, w_1, w_2, w_3 > 0$
$l_2 + l_3 = l_1$
$w_2 + w_3 = w_1$
point p_1 is at a distance from the vertex defined by l_1 and w_1 which is proportional to l_1 and w_1
point p_2 is at a distance from the vertex defined by l_3 and w_2 which is proportional to l_3 and w_2