## Chain Cooles · After an image was processed by CCA, chain codes can help us find interesting properties of the connected components. · These include: outline, perimeter and area We move around the object's edge (its "outline") using this thing: 7 1 · Depending on which arrow we take , we do a different computation. We trace the entire outline of an object and start and start and finish on the same pixel starting point chain codes real outline We can compute the perimeter of an object (i.e the length of its outline) by realising that the chain codes with even numbers (that is 0, 2, 4 and 6. These guys: 6 = $\frac{1}{2}$ ) add one pixel length to the total perimeter, 4 and the odd one's ( $\frac{1}{2}$ ) add $\frac{1}{2}$ because $\frac{1}{2}$ $\frac{1}$ Note: re normally pixel length So perimeter length = number of even chain code steps \* pixel length + 12 \* number of odd chain code steps \* pixel length Computing area with chain codes see next page