$$\begin{array}{c} (Mhat should happen. \\ 53145 \\ 35145 \\ 35145 \\ 51345 \\ 53415 \\ 1 \\ 31545 \\ Mhat happens in the code. \\ 58 \\ Word = 53145, \quad Qhene = []]$$

$$word = 53145 \qquad \text{grene} = [].$$
  

$$i = 0. \quad \text{new-word} = 35145, \text{ no long braid.}$$
  

$$Checked = \{w, 35145\}$$
  

$$queue = [35145.]$$
  

$$i = [ \qquad \text{new-word} = 51345, \text{ no long braid.}$$
  

$$checked = \{w, 35145, 51345\}$$
  

$$queue = [51345, 51345]$$
  

$$queue = [51345, 35145]$$
  

$$i = 2 \qquad \text{new-word} = 53415, \text{ no long braid.}$$
  

$$checked = \{w, 85145, 51345, 53415\}$$
  

$$queue = [53415, 51345, 53415]$$

Done with FC-tests.

Next?: Given the Coveter type. e.g. 
$$A_{4:0,\frac{1}{2},\frac{3}{2},\frac{9}{9}}$$
  
N five roles: A generate all FC words up to a certain length l  
generate all words  $l=2$ . all ij where  $i \neq j$  should be generated.  
Up to length l  
then check FC A4  
but can we do better?  
 $l=4$  more interventing. for example  
 $l=4$  more complicated.

More on reducedness new FC test.

C. FC test I checking for 'ss' = Rodued +FC test

ToDo: \_ Sarah : C