

Example 3 [Not full solution, just help you to remind]

$S \rightarrow ACB \mid CbB \mid Ba$
 $A \rightarrow da \mid BC$
 $B \rightarrow g \mid \epsilon$
 $C \rightarrow h \mid \epsilon$

First Set [eg. S]

$S \rightarrow ACB$ $FST(S) = FST(A) + FST(C) + FST(B)$
 $\mid CbB$ $+ \{b\} \quad + \{a\}$
 $\mid Ba$

- step 1: always the FST (leftmost)
step 2: if leftmost can be ϵ , check
 the one right after leftmost,
 repeat ϵ check.

Follow Set [eg. B]

- step 1. find all the appearance of B
 in the right hand side [green circle]
step 2. the FST (right after B)
step 3. if the symbol right after B can be ϵ
 repeat step 2.
step 4. if nothing after B or can be replaced
 by ϵ then FLW (left hand side symbol)
step 5. ϵ never appears in the follow set

$$FLW(B) = FLW(S) + \{a\} + FST(C) + FLW(A)$$