```
open import Data.Nat
data MensPref: Set where
  \mathsf{woman}:\, N \to \mathsf{MensPref}
  \mathsf{node}: \mathsf{MensPref} \to \mathsf{MensPref} \to \mathsf{MensPref}
  \mathsf{man}\ :\ N\to\mathsf{MensPref}\to\mathsf{MensPref}\to\mathsf{MensPref}
-- [(1, [2,1]), (2, [1,2])]
ex : MensPref
ex =
  node
    (man 1
      (woman 2)
      (woman 1))
    (man 2
      (woman 1)
      (woman 2))
-- [(1, [2,3,1]), (2, [1,2,3]), (3, [2,1,3])]
ex': MensPref
ex' =
  node
    (man 1
      (woman 2)
      (man 1
        (woman 3)
        (woman 1)))
    (node
      (man 2
        (woman 1)
        (man 2
          (woman 2)
          (woman 3)))
      (man 3
        (woman 2)
        (man 3
          (woman 1)
          (woman 3))))
-- Next tasks: write conversion from [([])] to MensPref
-- Write the step function
```