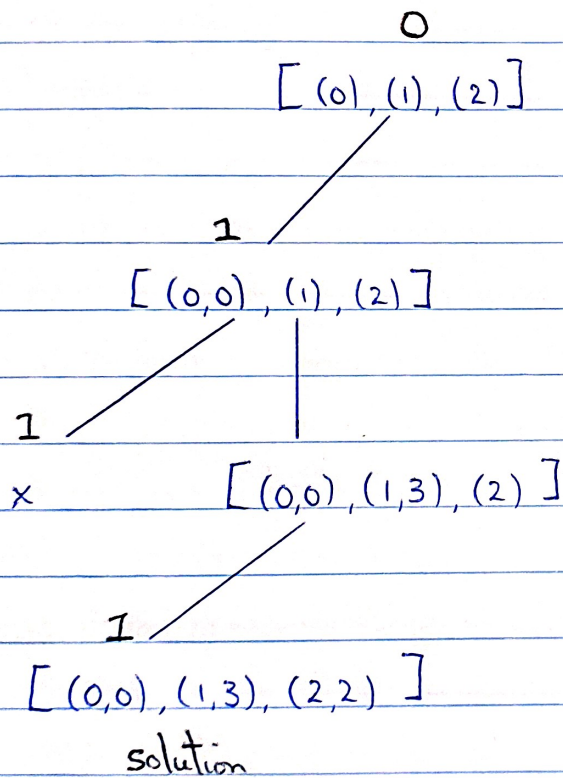# PART 1

Notation: We are using tuples to represent a match between a man, m and woman, w as shown below :

$$(w, m)$$

In the case where a woman, w is unmatched, we write (w).

O

$$[(0), (1), (2)]$$

1

$$[(0,0), (1), (2)]$$

1

x

$$[(0,0), (1,3), (2)]$$

1

$$[(0,0), (1,3), (2,2)]$$

solution

Therefore; (i) Woman "0" can be paired with man "0",

(ii) " "1" " " " " " "3" and

(iii) " "2" " " " " " "2"