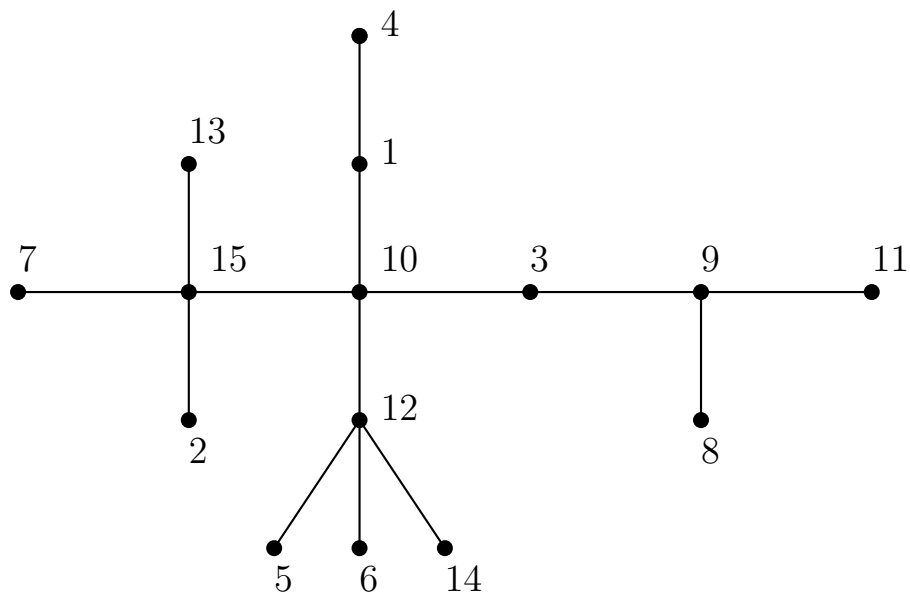
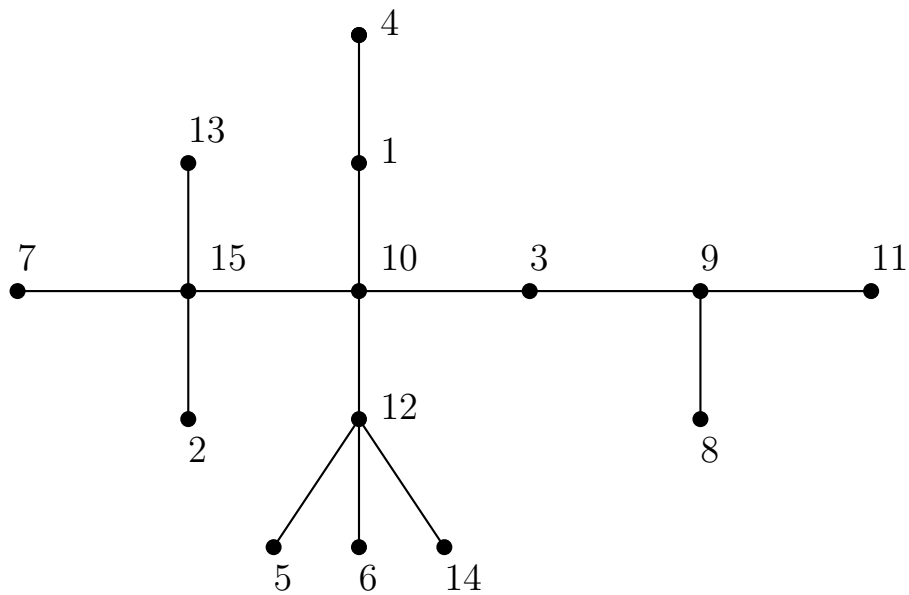


# Seqüència de Prüfer d'un arbre d'ordre $\geq 3$



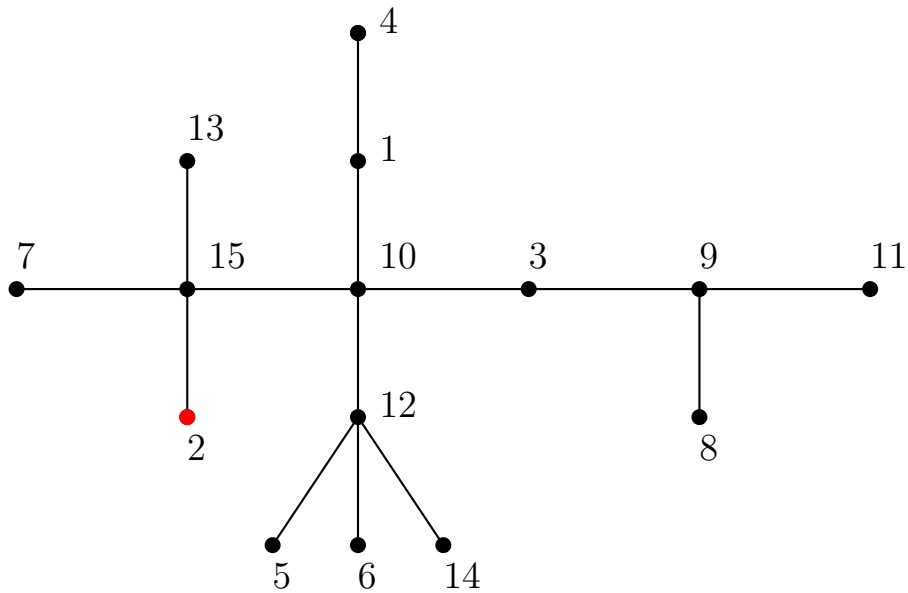
## Seqüència de Prüfer d'un arbre d'ordre $\geq 3$



$L =$

$\min L =$

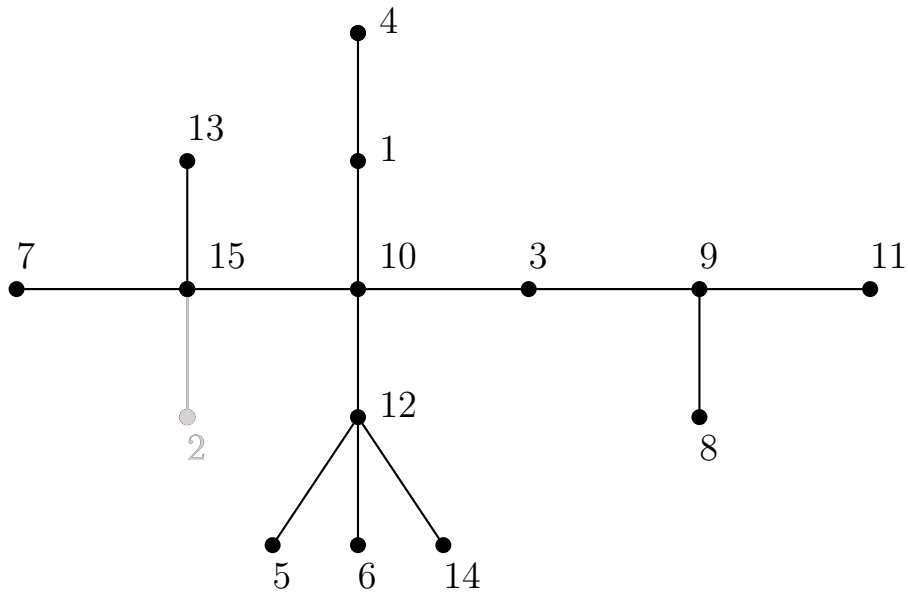
## Seqüència de Prüfer d'un arbre d'ordre $\geq 3$



$$L = \{2, 4, 5, 6, 7, 8, 11, 13, 14\}$$

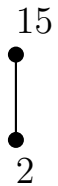
$$\min L = 2$$

## Seqüència de Prüfer d'un arbre d'ordre $\geq 3$

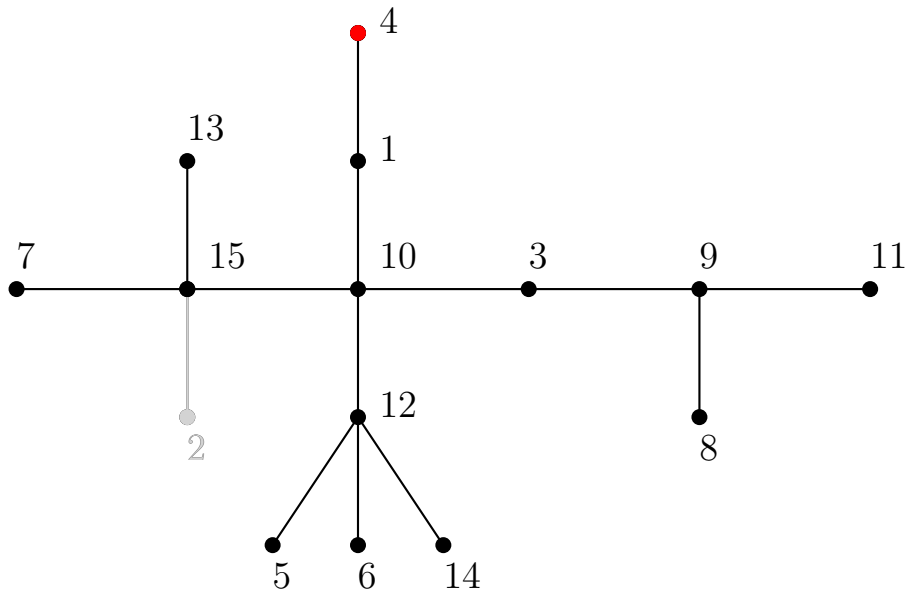


$$L = \{2, 4, 5, 6, 7, 8, 11, 13, 14\}$$

$$\min L = 2$$

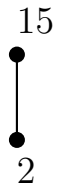


## Seqüència de Prüfer d'un arbre d'ordre $\geq 3$

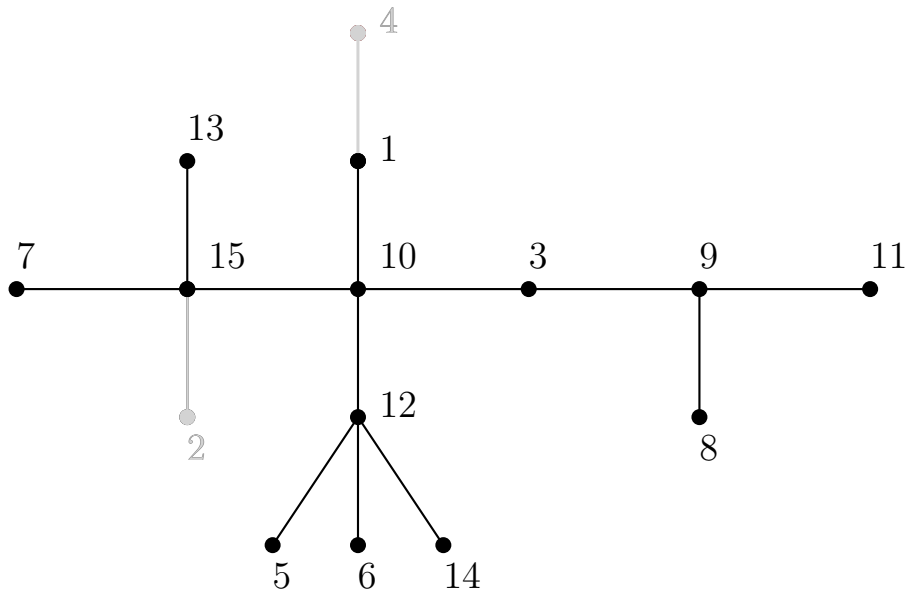


$$L = \{4, 5, 6, 7, 8, 11, 13, 14\}$$

$$\min L = 4$$

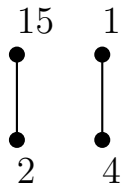


# Seqüència de Prüfer d'un arbre d'ordre $\geq 3$

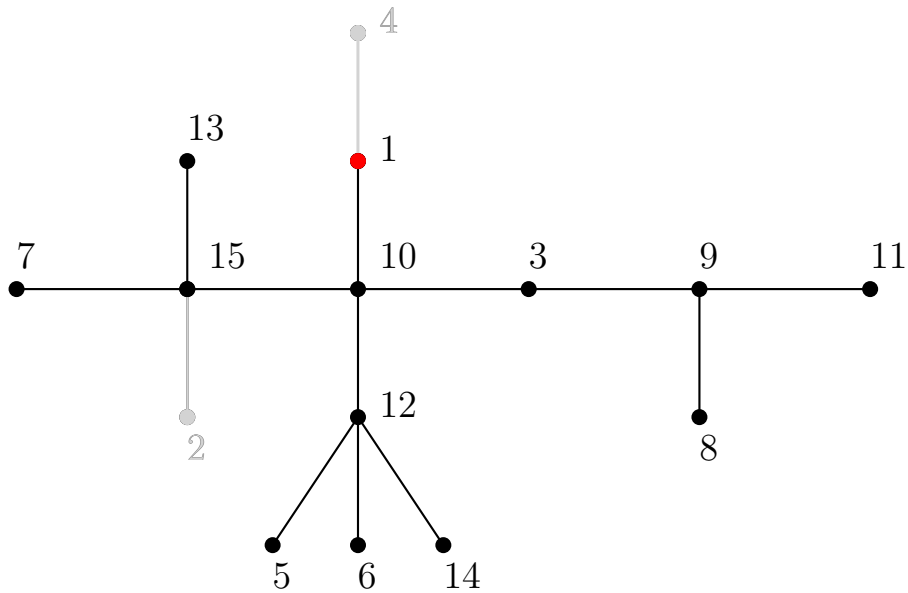


$$L = \{4, 5, 6, 7, 8, 11, 13, 14\}$$

$$\min L = 4$$

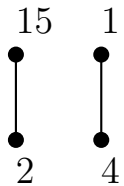


# Seqüència de Prüfer d'un arbre d'ordre $\geq 3$

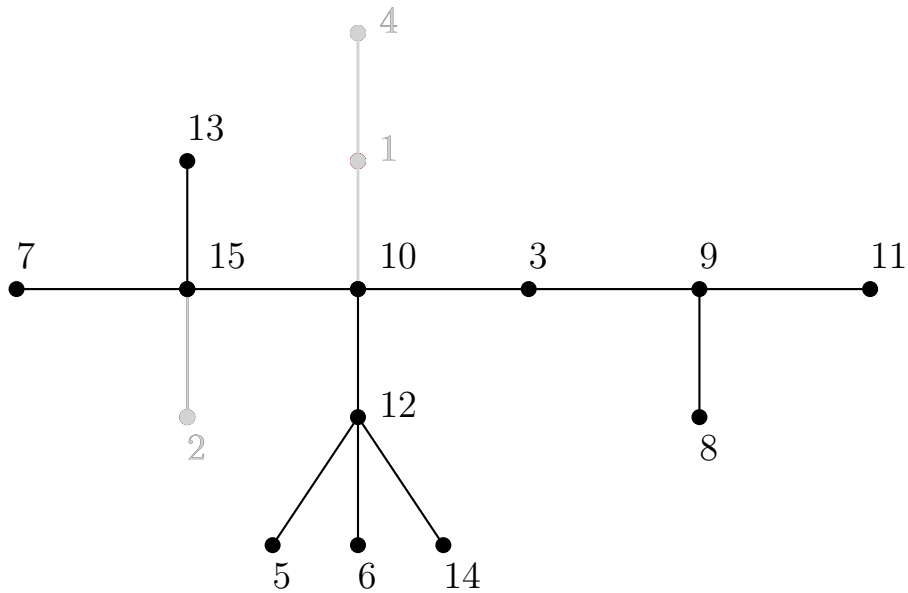


$$L = \{1, 5, 6, 7, 8, 11, 13, 14\}$$

$$\min L = 1$$

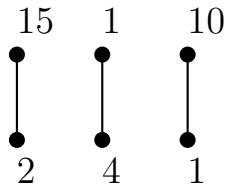


# Seqüència de Prüfer d'un arbre d'ordre $\geq 3$



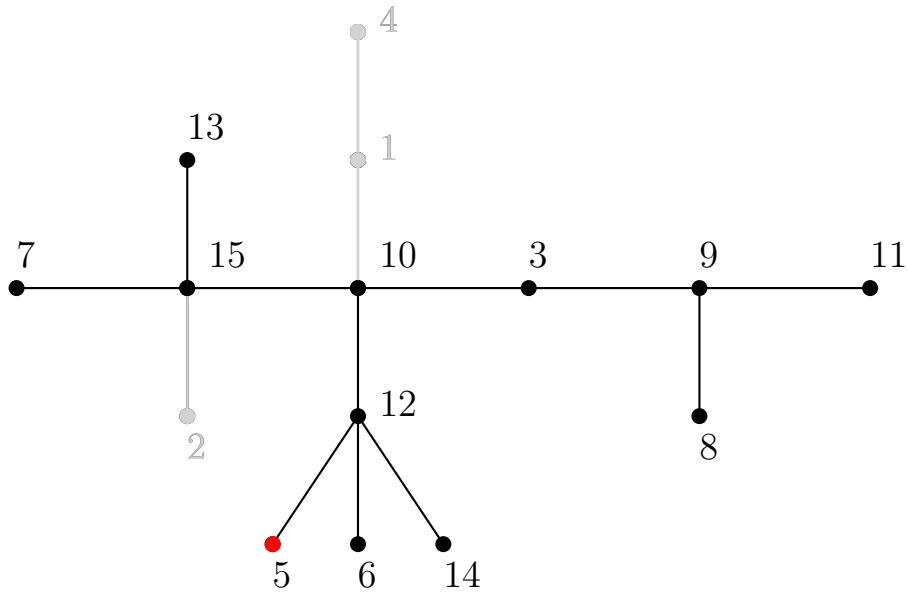
$$L = \{1, 5, 6, 7, 8, 11, 13, 14\}$$

$$\min L = 1$$



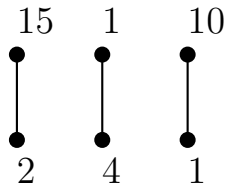


# Seqüència de Prüfer d'un arbre d'ordre $\geq 3$

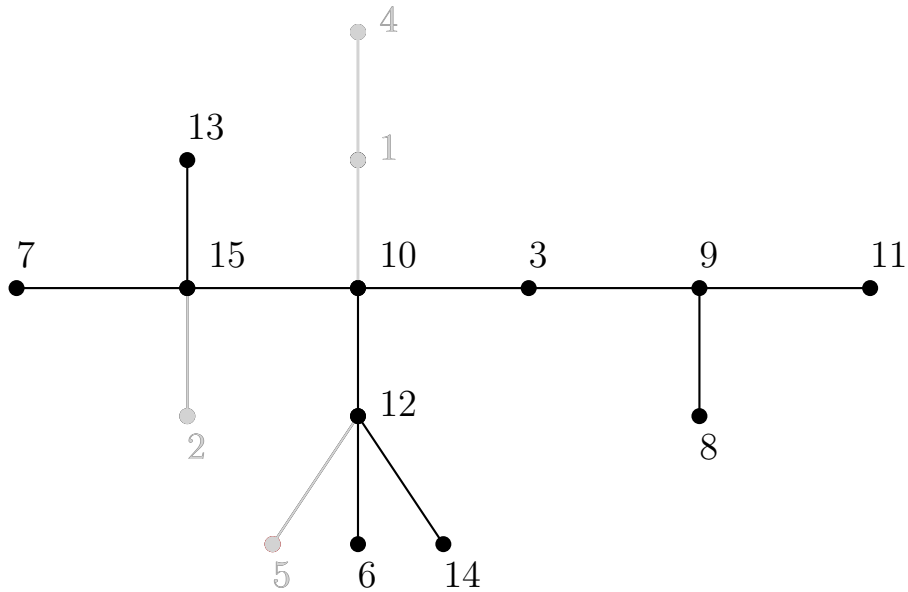


$$L = \{5, 6, 7, 8, 11, 13, 14\}$$

$$\min L = 5$$

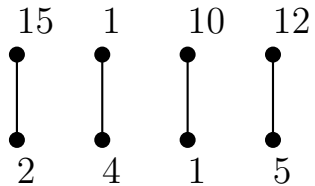


# Seqüència de Prüfer d'un arbre d'ordre $\geq 3$

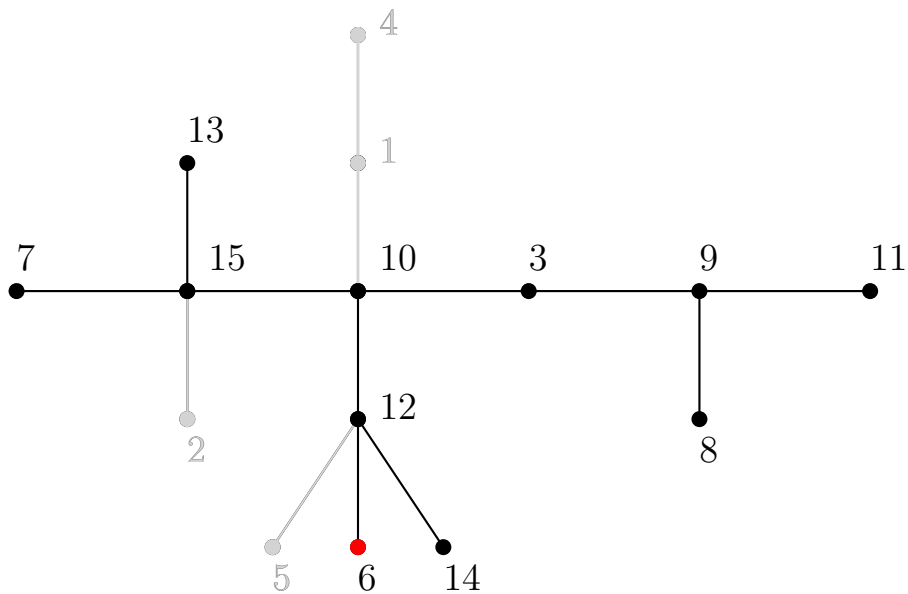


$$L = \{5, 6, 7, 8, 11, 13, 14\}$$

$$\min L = 5$$

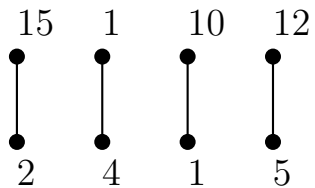


# Seqüència de Prüfer d'un arbre d'ordre $\geq 3$

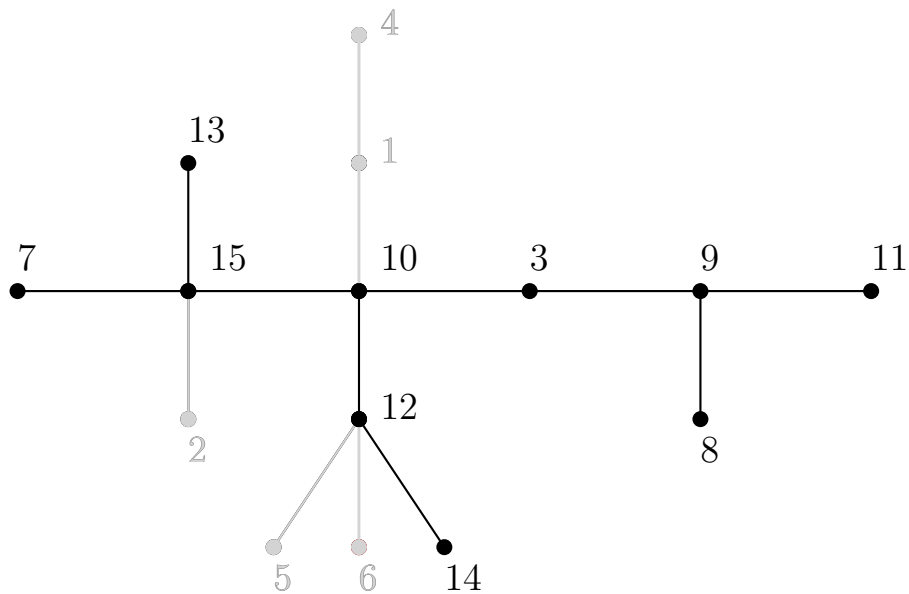


$$L = \{6, 7, 8, 11, 13, 14\}$$

$$\min L = 6$$

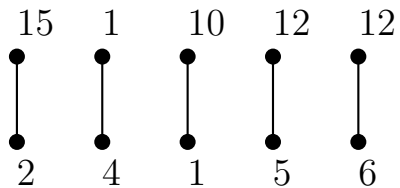


# Seqüència de Prüfer d'un arbre d'ordre $\geq 3$

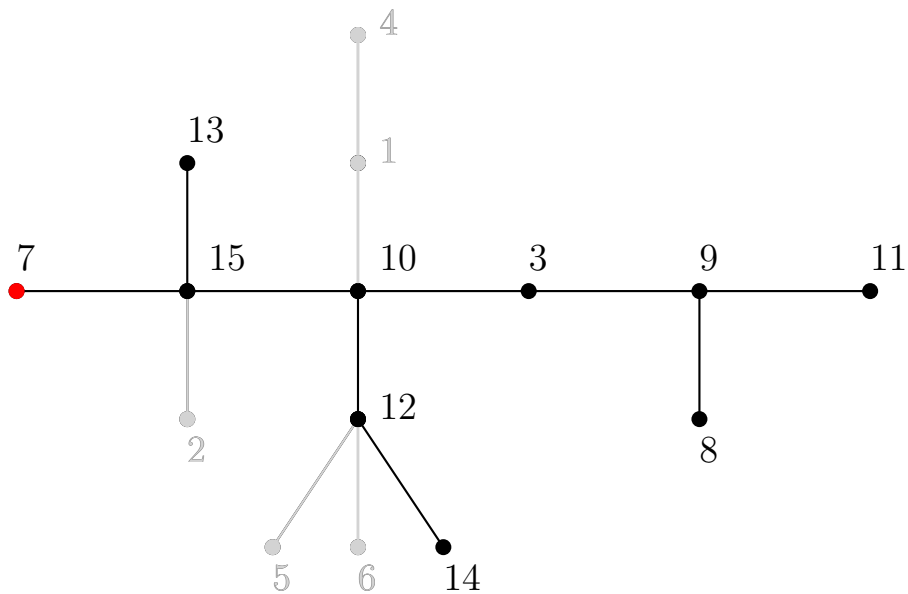


$$L = \{6, 7, 8, 11, 13, 14\}$$

$$\min L = 6$$

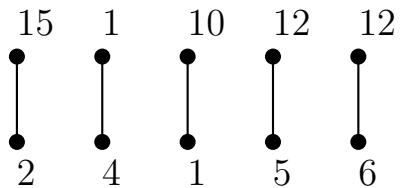


# Seqüència de Prüfer d'un arbre d'ordre $\geq 3$

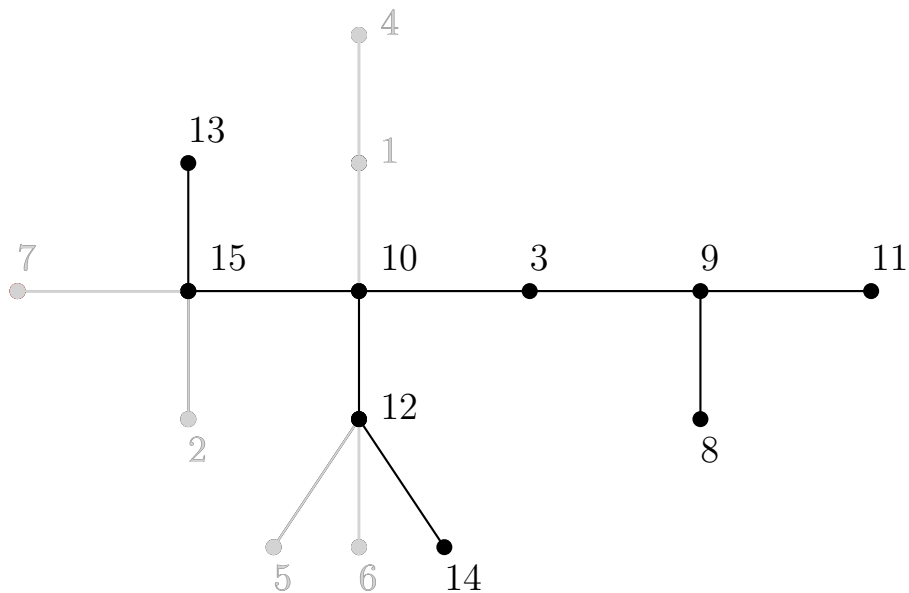


$$L = \{7, 8, 11, 13, 14\}$$

$$\min L = 7$$

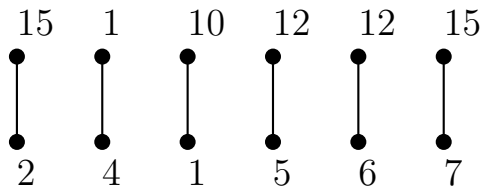


# Seqüència de Prüfer d'un arbre d'ordre $\geq 3$

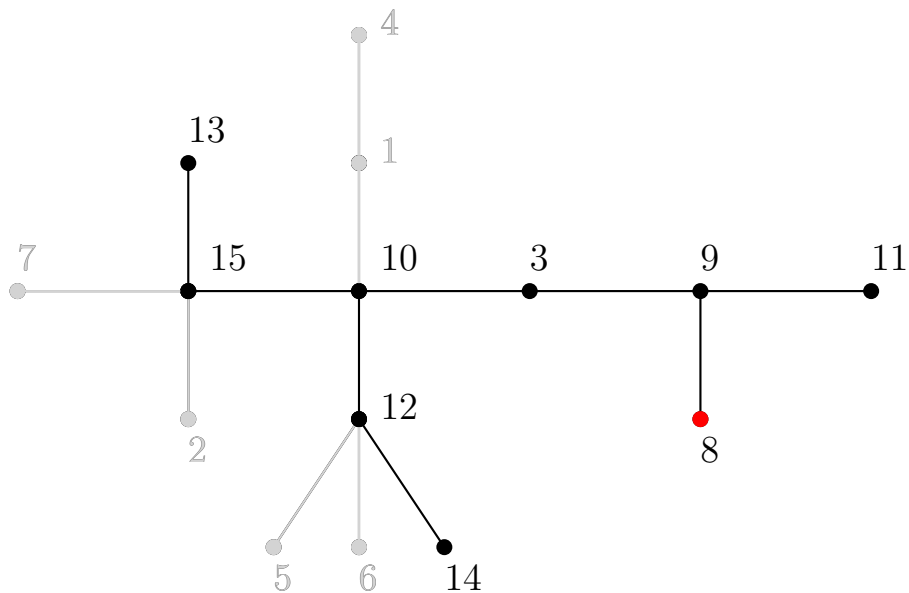


$$L = \{7, 8, 11, 13, 14\}$$

$$\min L = 7$$

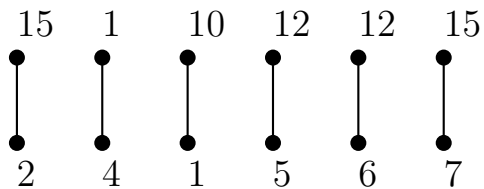


# Seqüència de Prüfer d'un arbre d'ordre $\geq 3$

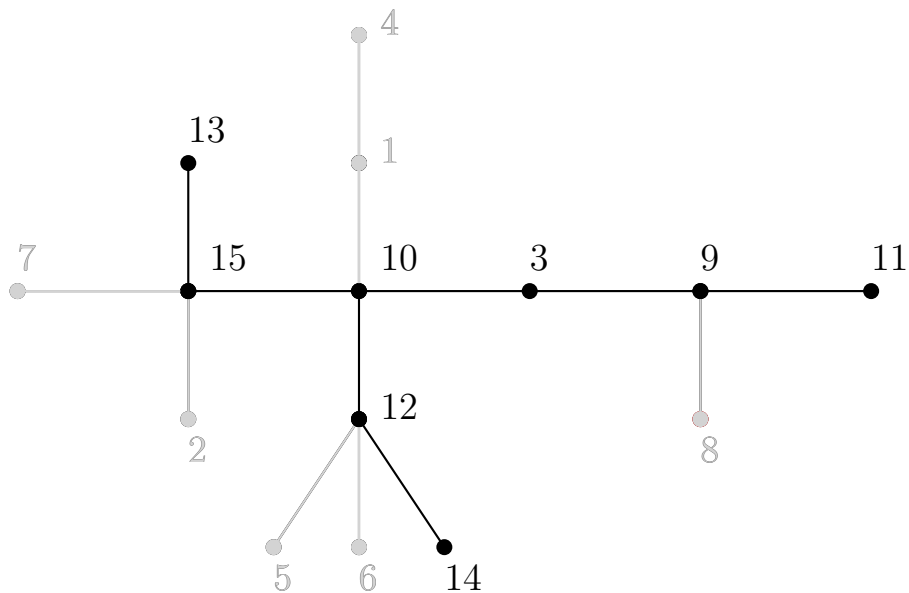


$$L = \{8, 11, 13, 14\}$$

$$\min L = 8$$

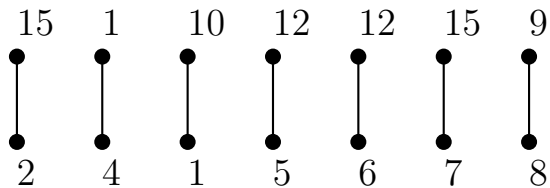


# Seqüència de Prüfer d'un arbre d'ordre $\geq 3$



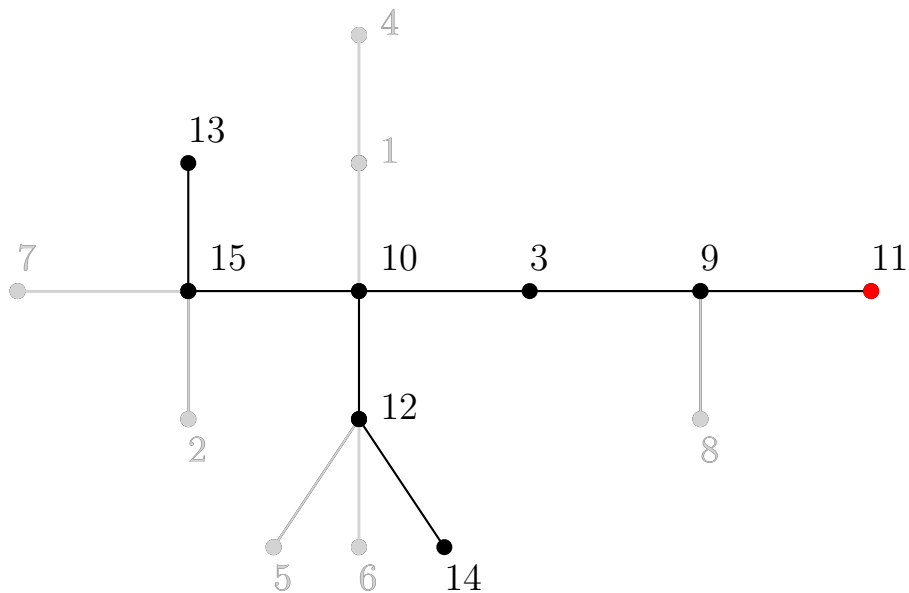
$$L = \{8, 11, 13, 14\}$$

$$\min L = 8$$



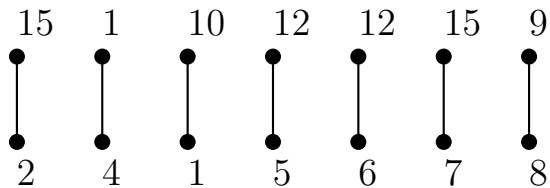


# Seqüència de Prüfer d'un arbre d'ordre $\geq 3$

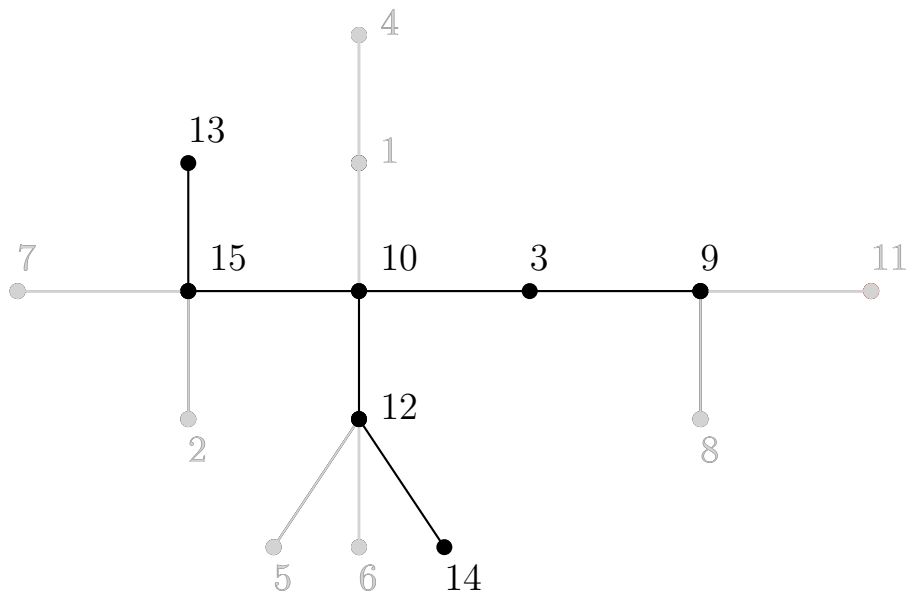


$$L = \{11, 13, 14\}$$

$$\min L = 11$$

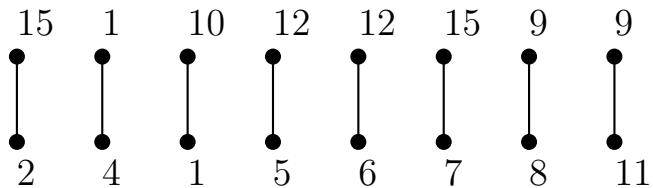


# Seqüència de Prüfer d'un arbre d'ordre $\geq 3$

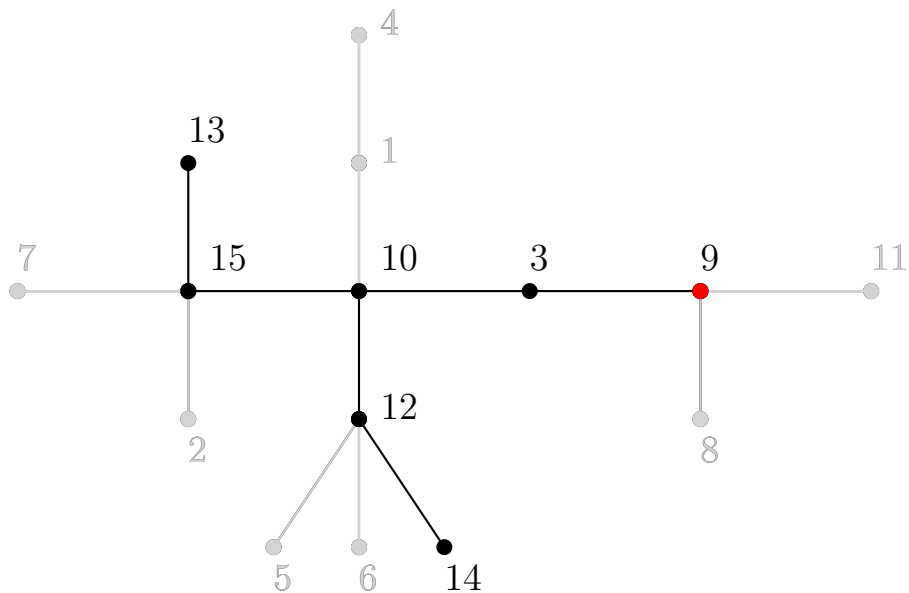


$$L = \{11, 13, 14\}$$

$$\min L = 11$$

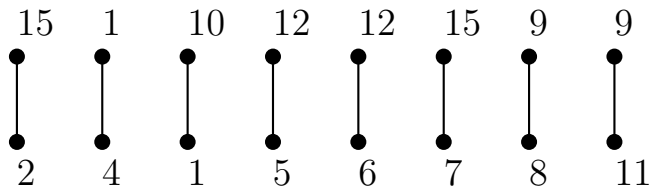


# Seqüència de Prüfer d'un arbre d'ordre $\geq 3$

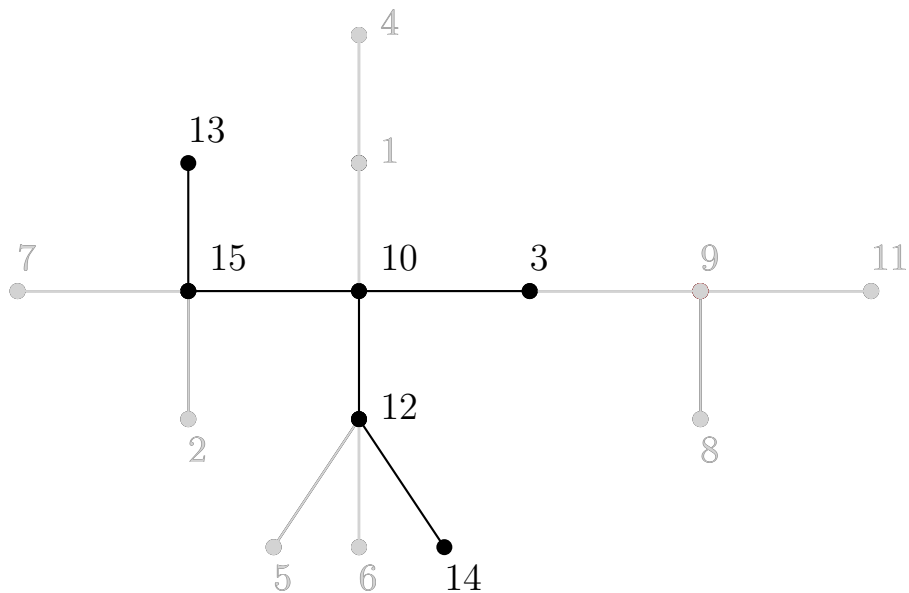


$$L = \{9, 13, 14\}$$

$$\min L = 9$$

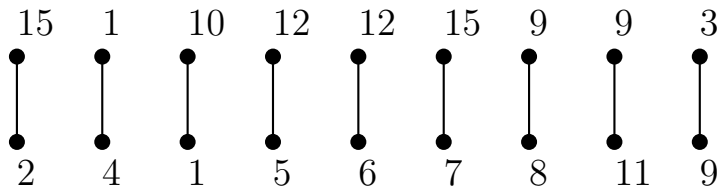


# Seqüència de Prüfer d'un arbre d'ordre $\geq 3$

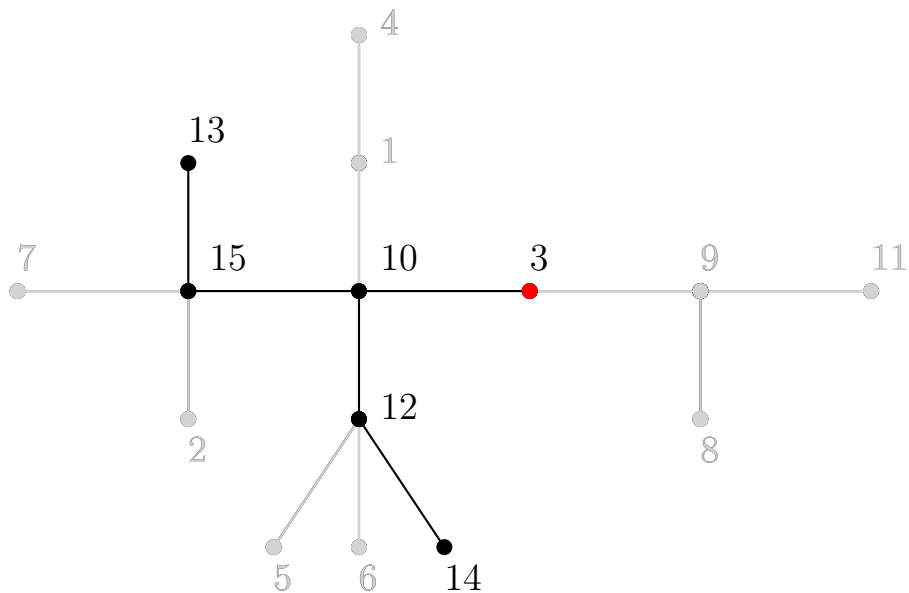


$$L = \{9, 13, 14\}$$

$$\min L = 9$$

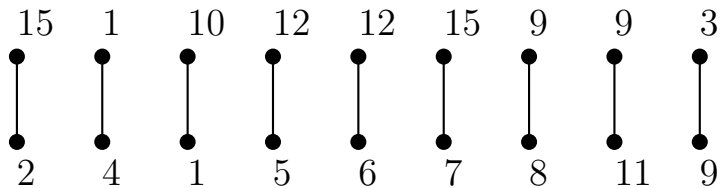


# Seqüència de Prüfer d'un arbre d'ordre $\geq 3$

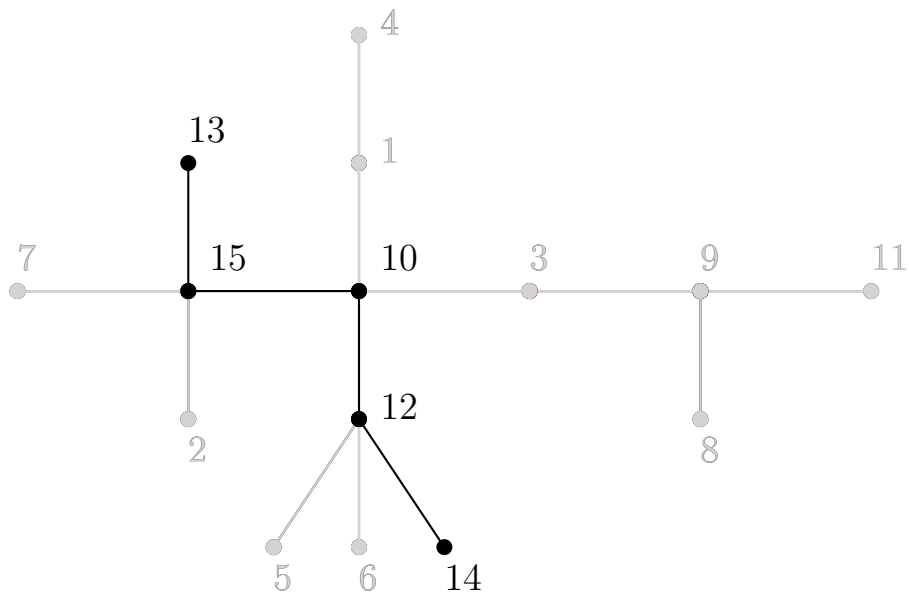


$$L = \{3, 13, 14\}$$

$$\min L = 3$$

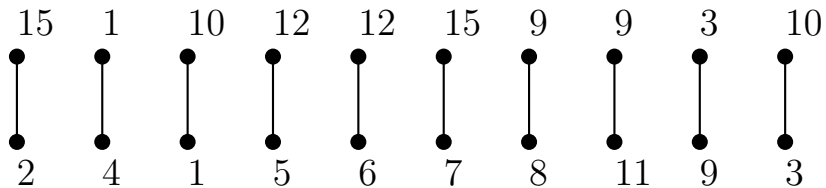


# Seqüència de Prüfer d'un arbre d'ordre $\geq 3$

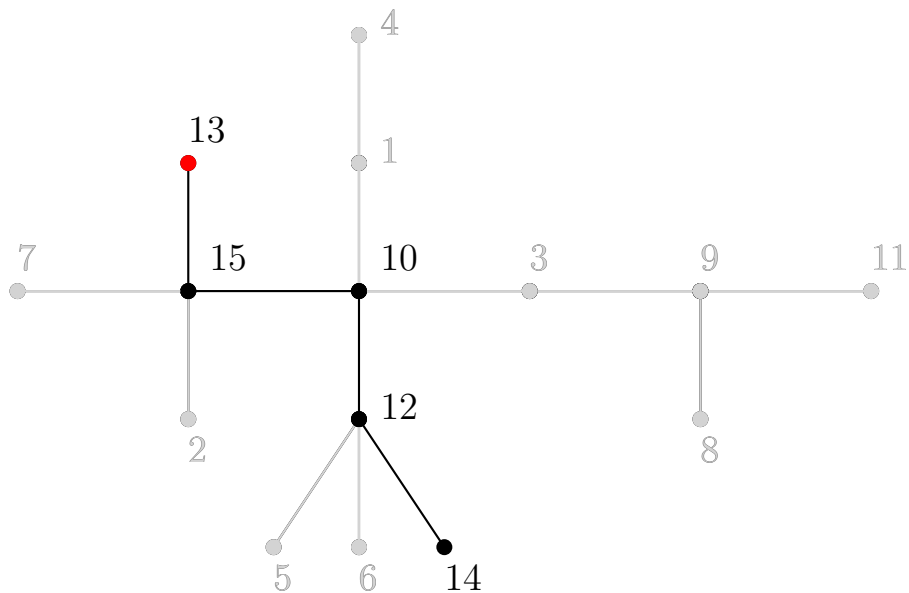


$$L = \{3, 13, 14\}$$

$$\min L = 3$$

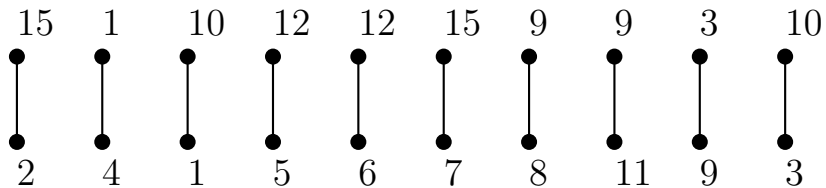


# Seqüència de Prüfer d'un arbre d'ordre $\geq 3$

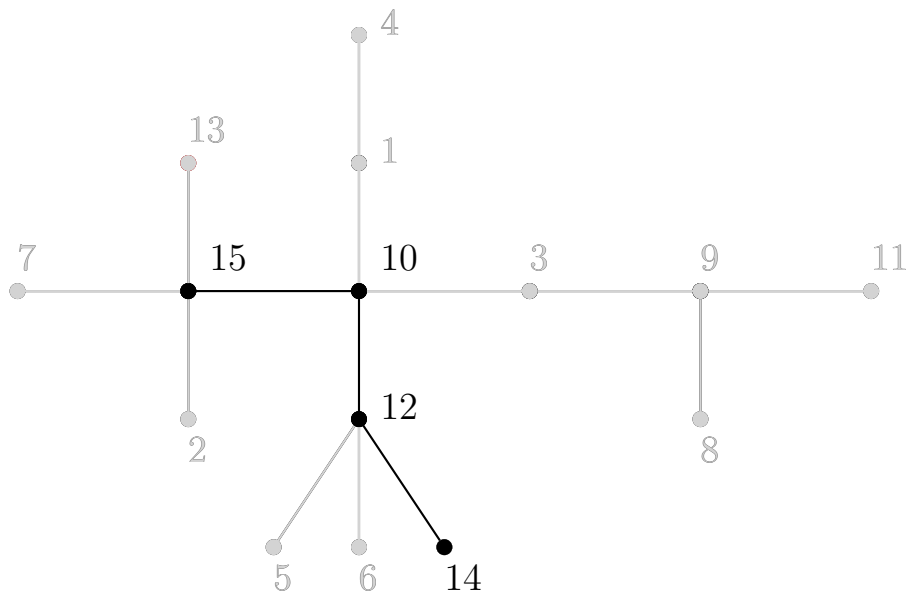


$$L = \{13, 14\}$$

$$\min L = 13$$

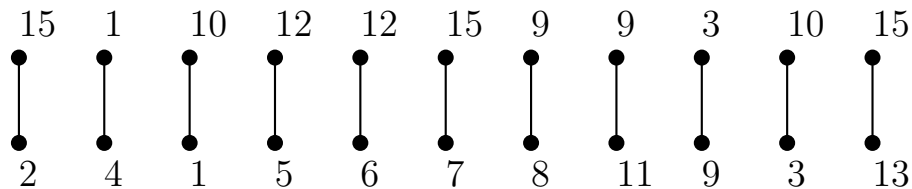


## Seqüència de Prüfer d'un arbre d'ordre $\geq 3$



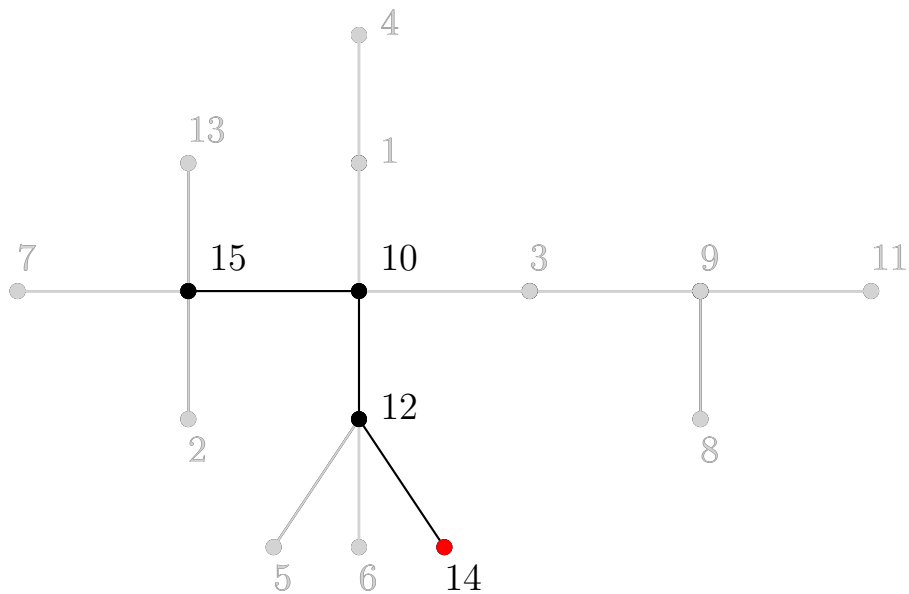
$$L = \{13, 14\}$$

$$\min L = 13$$



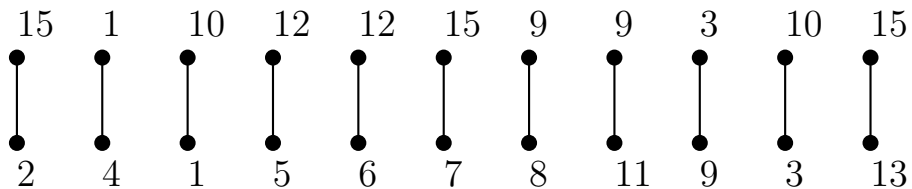


# Seqüència de Prüfer d'un arbre d'ordre $\geq 3$

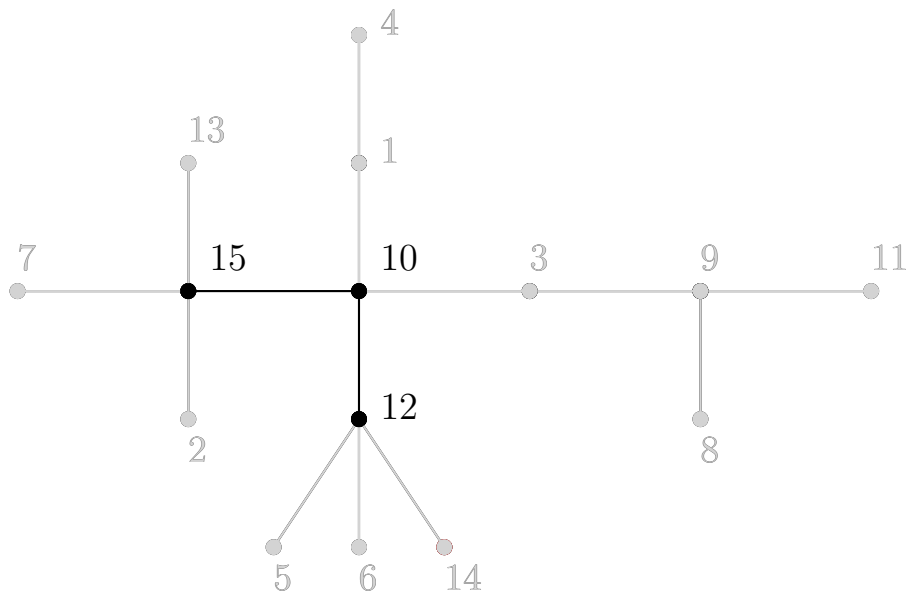


$$L = \{14, 15\}$$

$$\min L = 14$$

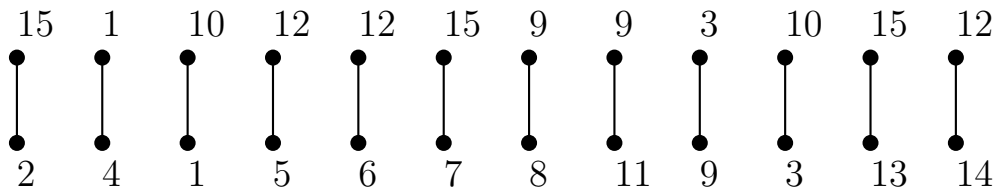


# Seqüència de Prüfer d'un arbre d'ordre $\geq 3$

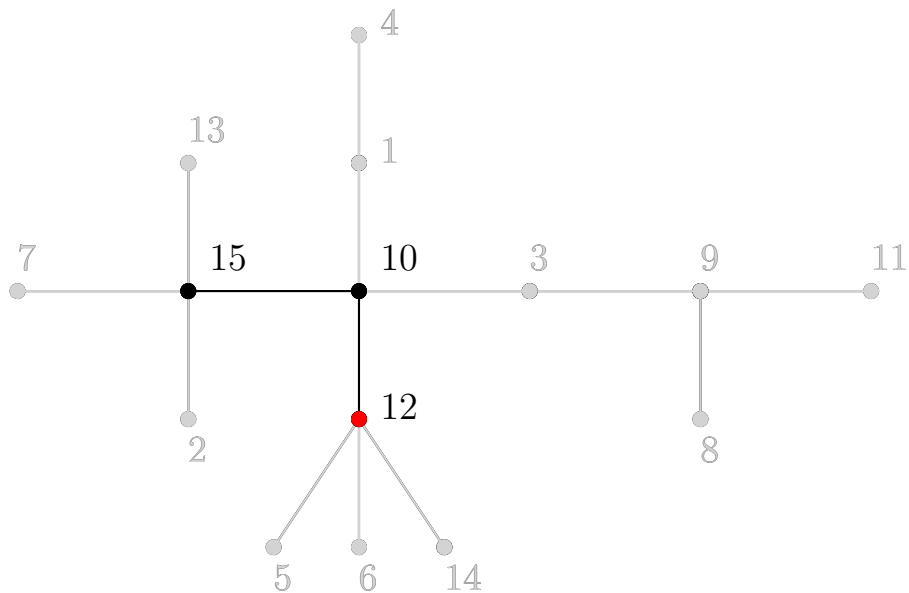


$$L = \{14, 15\}$$

$$\min L = 14$$

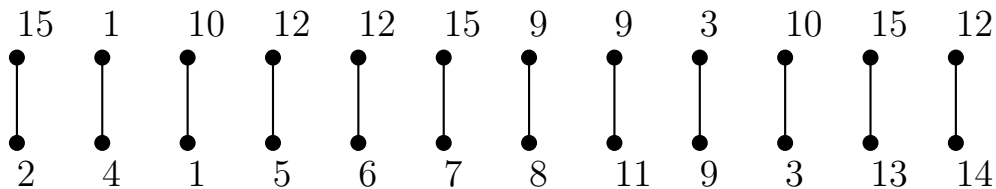


# Seqüència de Prüfer d'un arbre d'ordre $\geq 3$

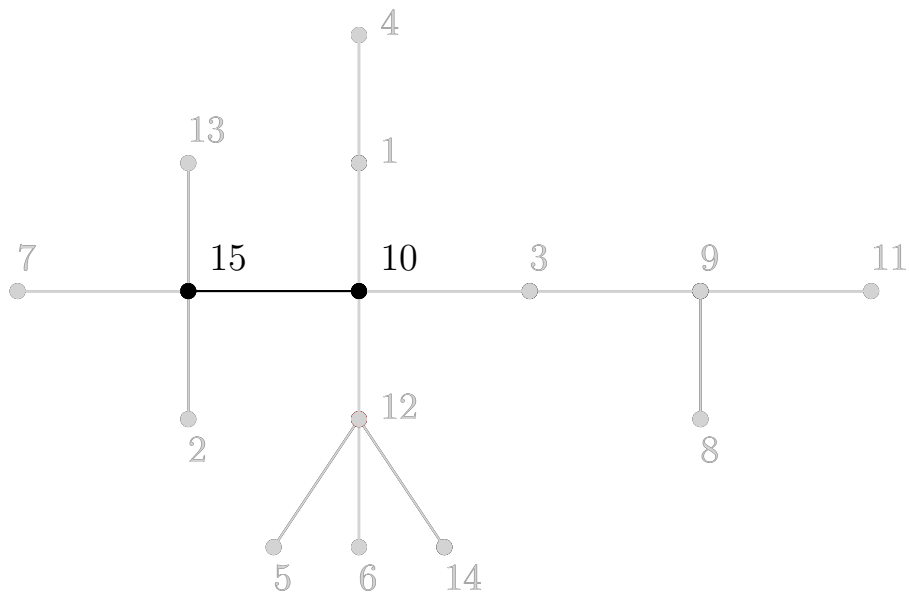


$$L = \{12, 15\}$$

$$\min L = 12$$

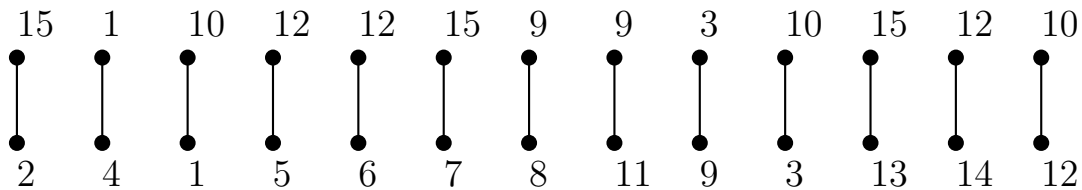


# Seqüència de Prüfer d'un arbre d'ordre $\geq 3$

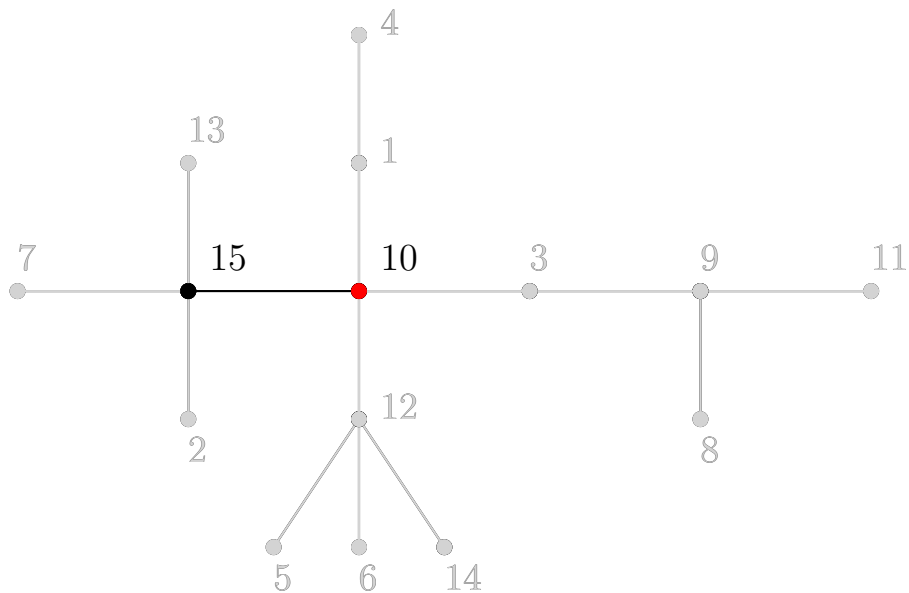


$$L = \{12, 15\}$$

$$\min L = 12$$

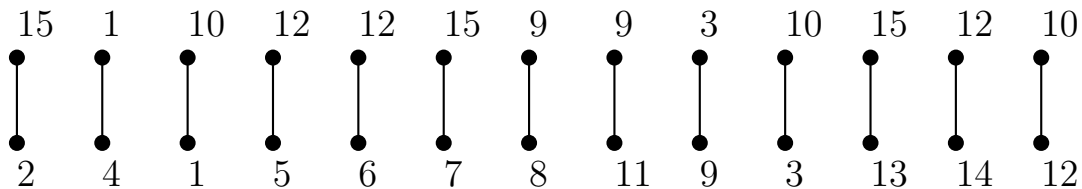


# Seqüència de Prüfer d'un arbre d'ordre $\geq 3$

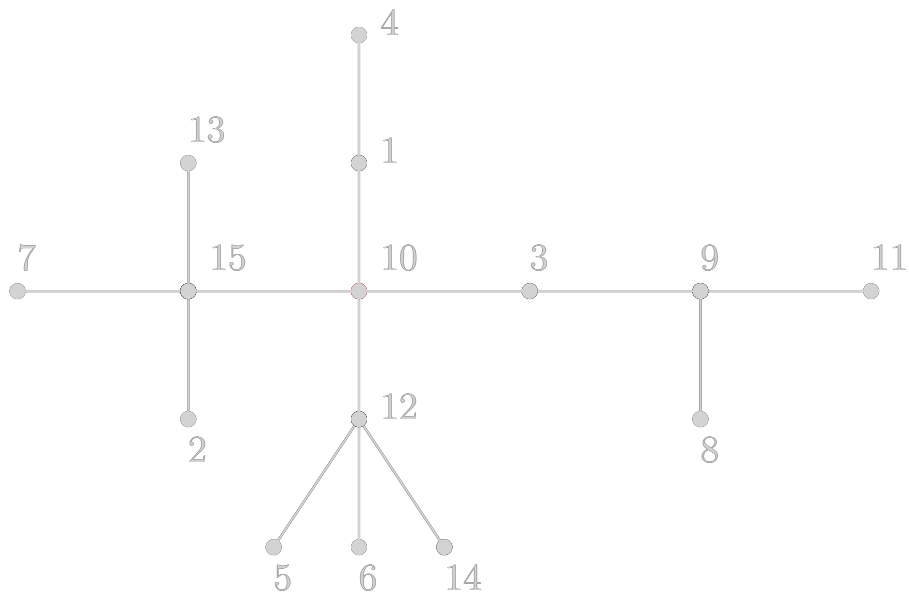


$$L = \{10, 15\}$$

$$\min L = 10$$

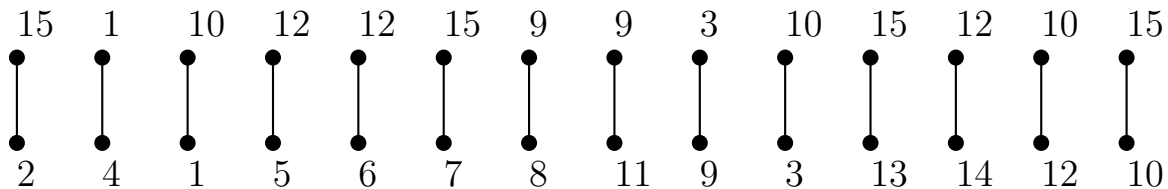


# Seqüència de Prüfer d'un arbre d'ordre $\geq 3$

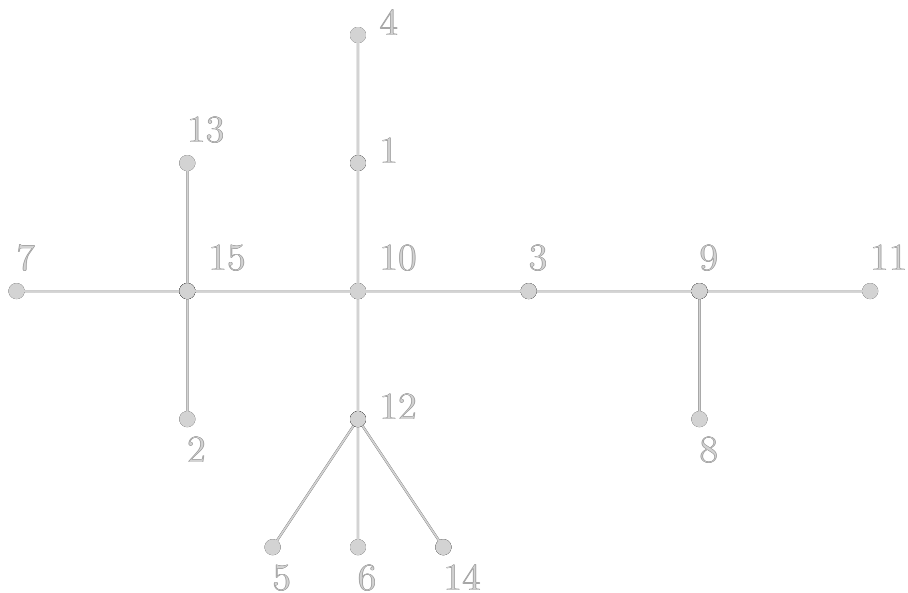


$$L = \{10, 15\}$$

$$\min L = 10$$

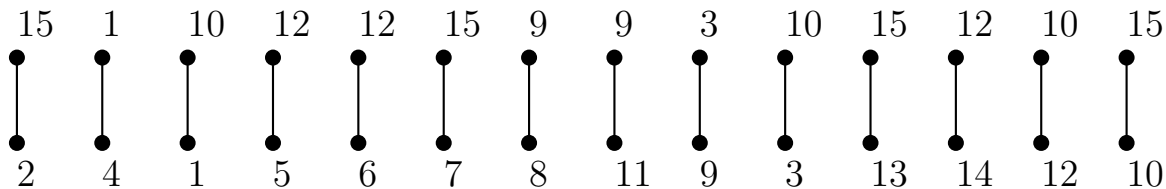


# Seqüència de Prüfer d'un arbre d'ordre $\geq 3$

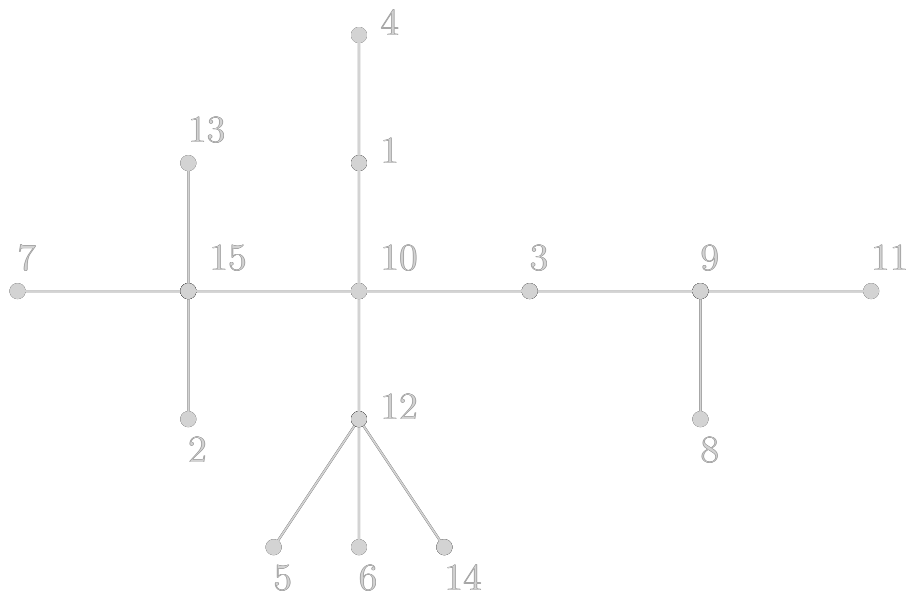


$L = \{ \}$

$\min L = -$

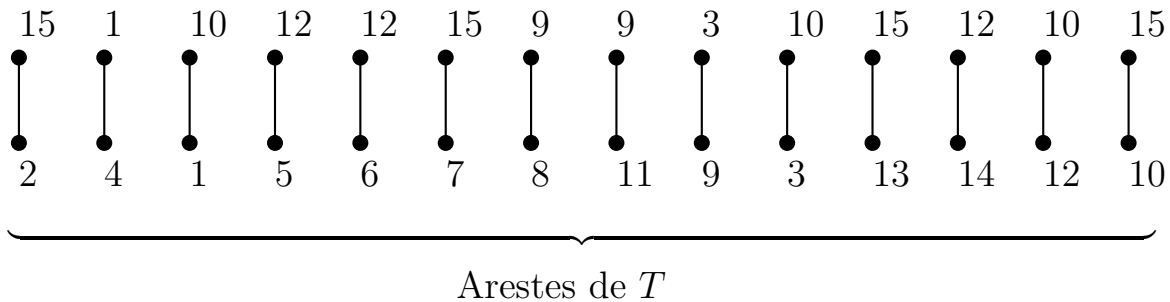


# Seqüència de Prüfer d'un arbre d'ordre $\geq 3$



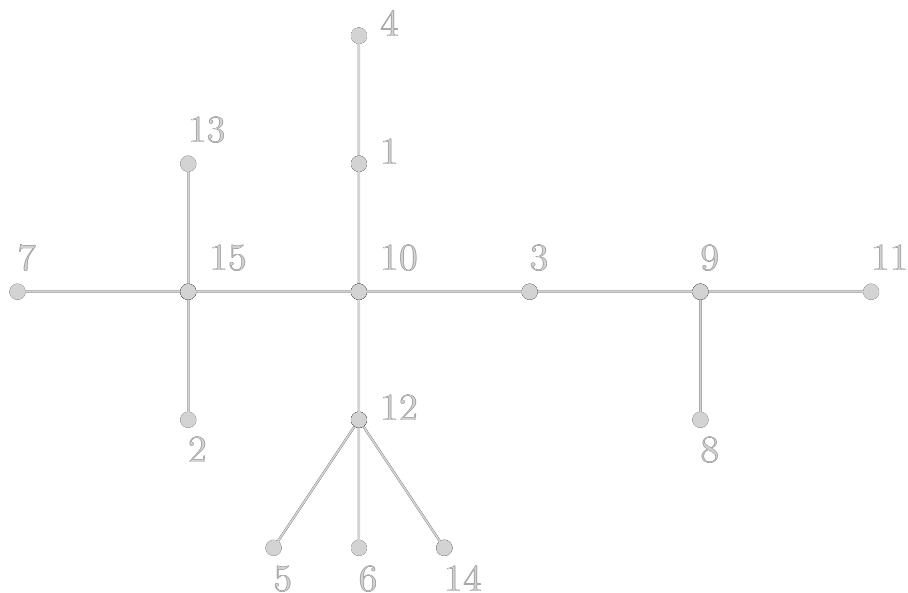
$L = \{ \}$

$\min L = -$

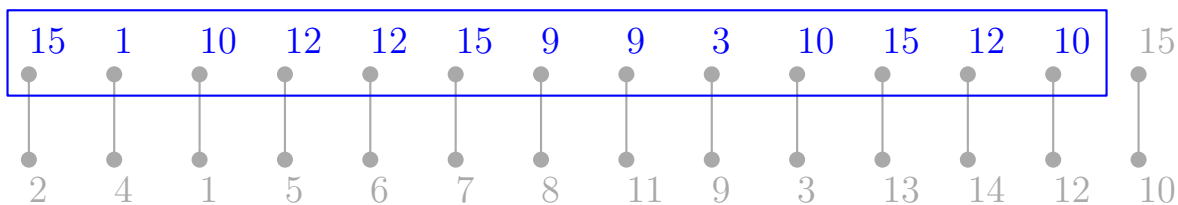




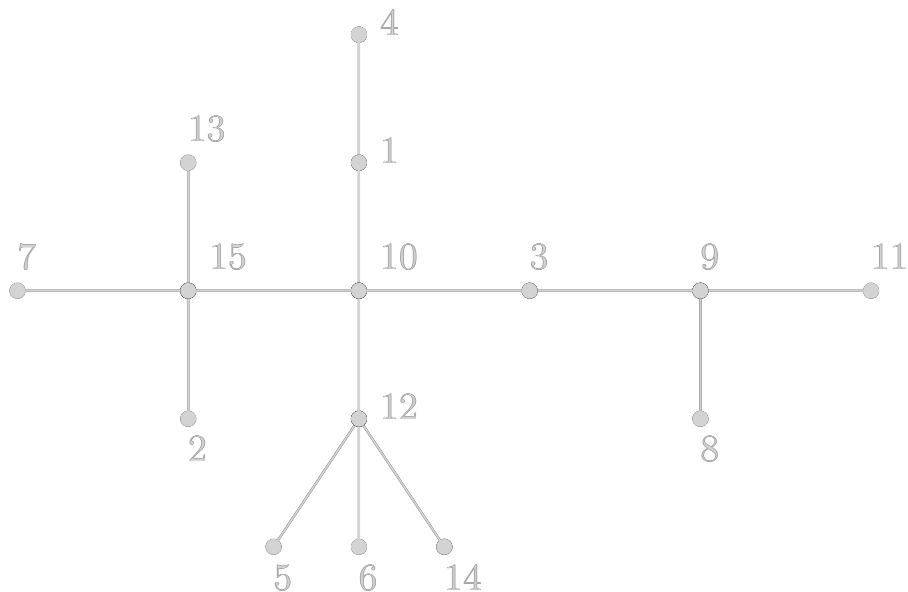
# Seqüència de Prüfer d'un arbre d'ordre $\geq 3$



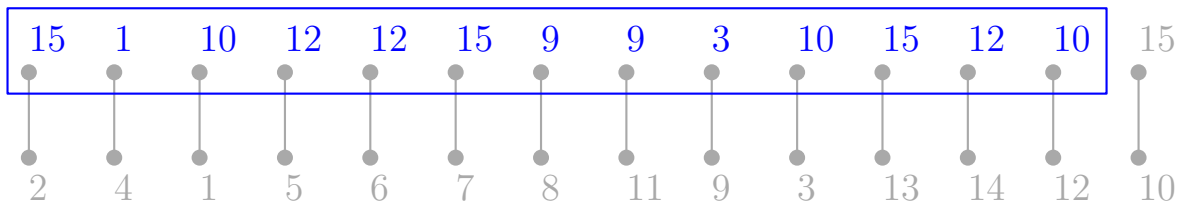
Seqüència de Prüfer



# Seqüència de Prüfer d'un arbre d'ordre $\geq 3$

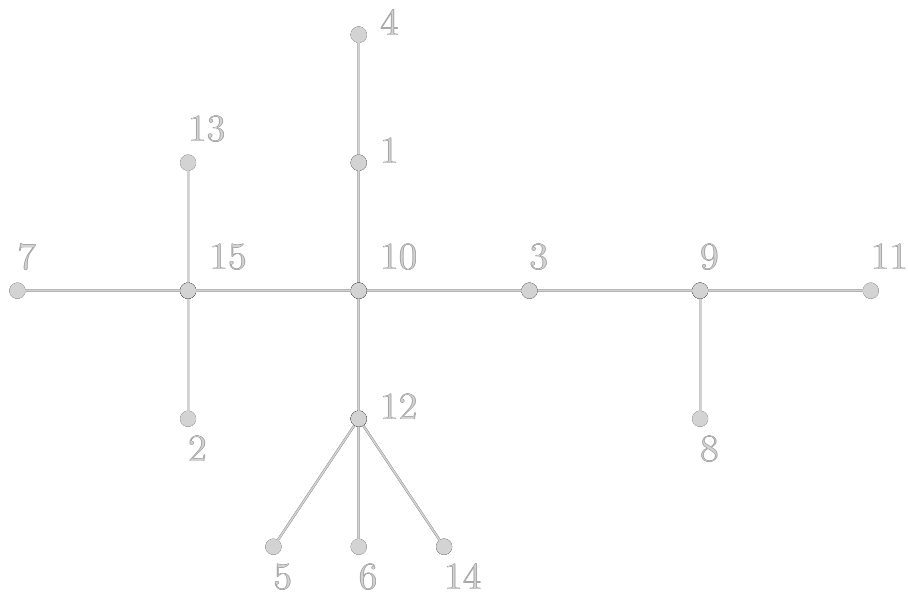


## Seqüència de Prüfer

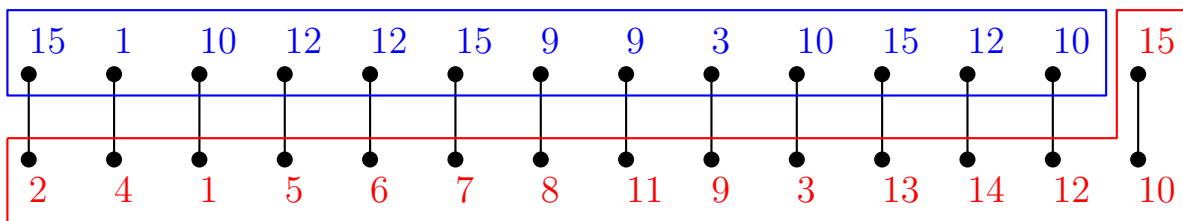


té longitud 13 ( $= mida(T) - 1 = ord(T) - 2$ )

# Seqüència de Prüfer d'un arbre d'ordre $\geq 3$

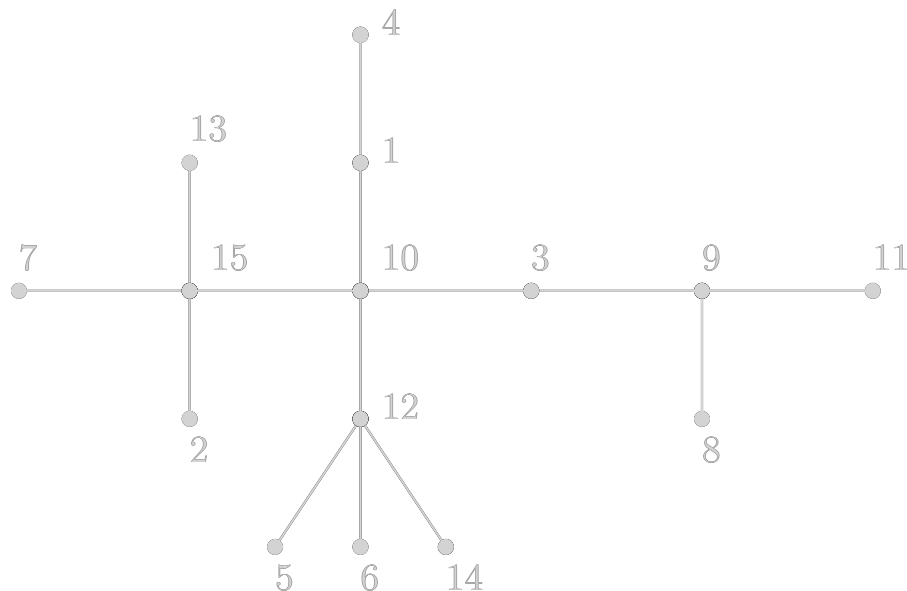


## Seqüència de Prüfer

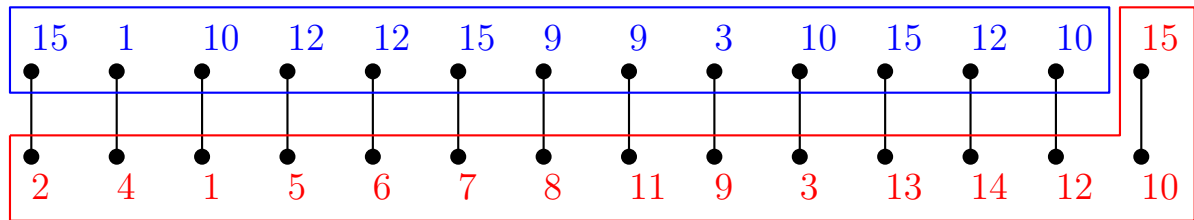


Vèrtexs de  $T$

Seqüència de Prüfer d'un arbre d'ordre  $\geq 3$



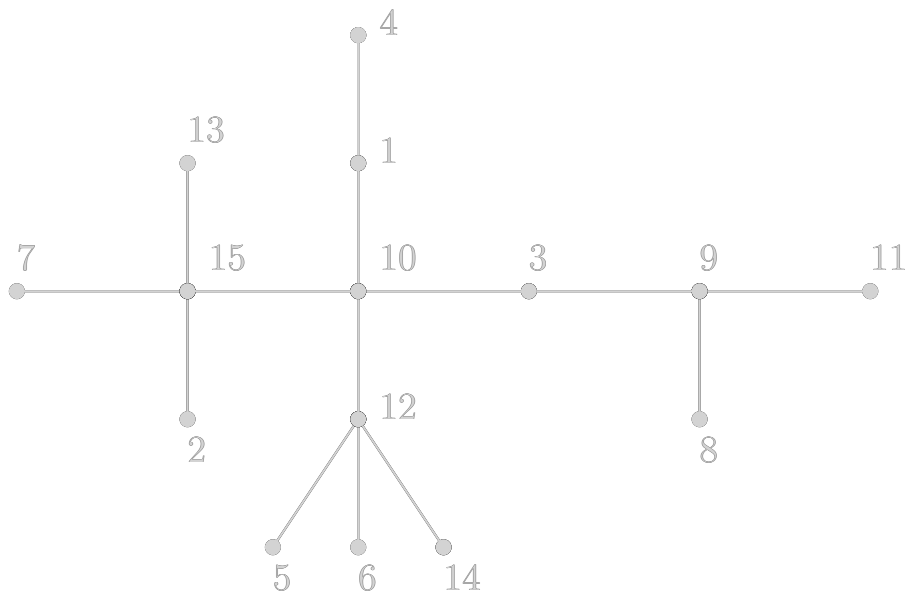
Seqüència de Prüfer



Vèrtexs de  $T$

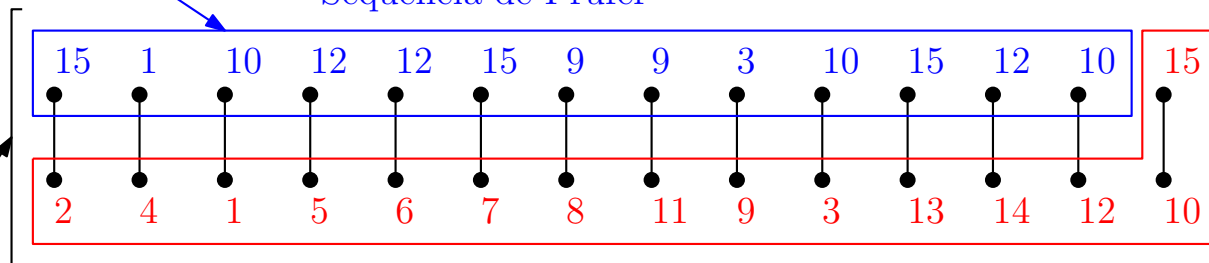
el vèrtex  $i$  apareix  $g(i)$  vegades

# Seqüència de Prüfer d'un arbre d'ordre $\geq 3$



el vèrtex  $i$  apareix  $g(i) - 1$  vegades

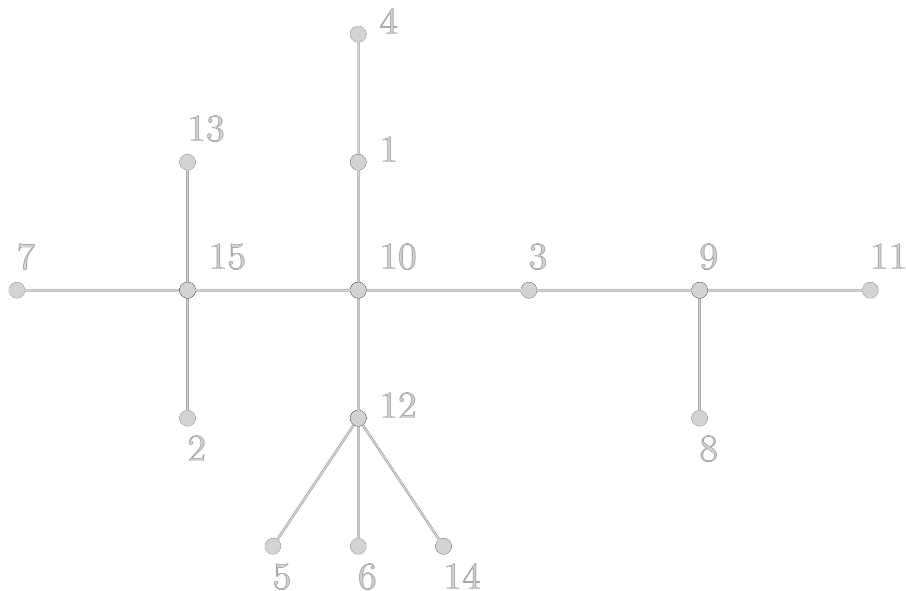
Seqüència de Prüfer



Vèrtexs de  $T$

el vèrtex  $i$  apareix  $g(i)$  vegades

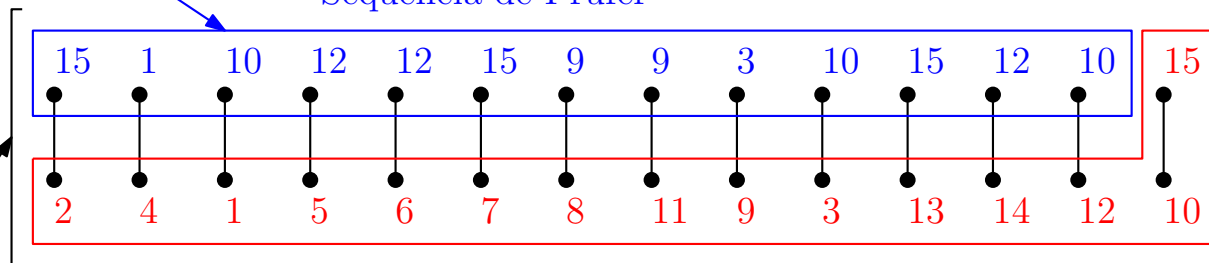
# Seqüència de Prüfer d'un arbre d'ordre $\geq 3$



el vèrtex  $i$  apareix  $g(i) - 1$  vegades

per tant, les fulles són els únics vèrtexs que NO apareixen a la seqüència de Prüfer!!!

## Seqüència de Prüfer

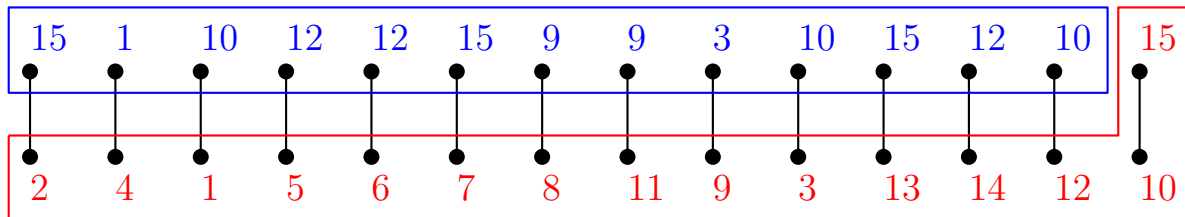


Vèrtexs de  $T$

el vèrtex  $i$  apareix  $g(i)$  vegades

# Seqüència de Prüfer d'un arbre d'ordre $\geq 3$

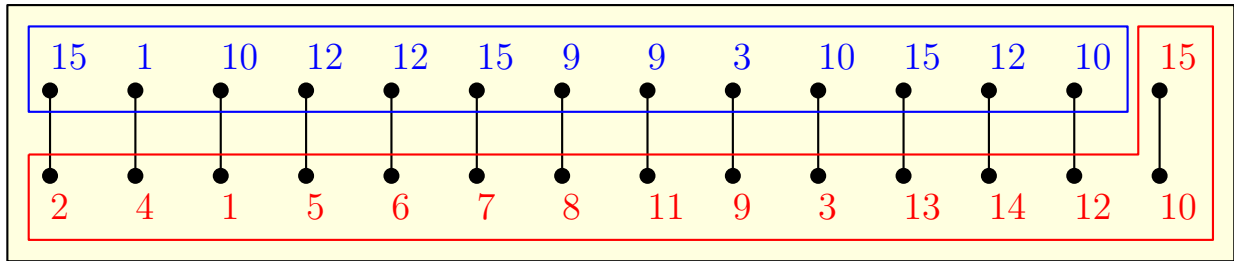
Seqüència de Prüfer



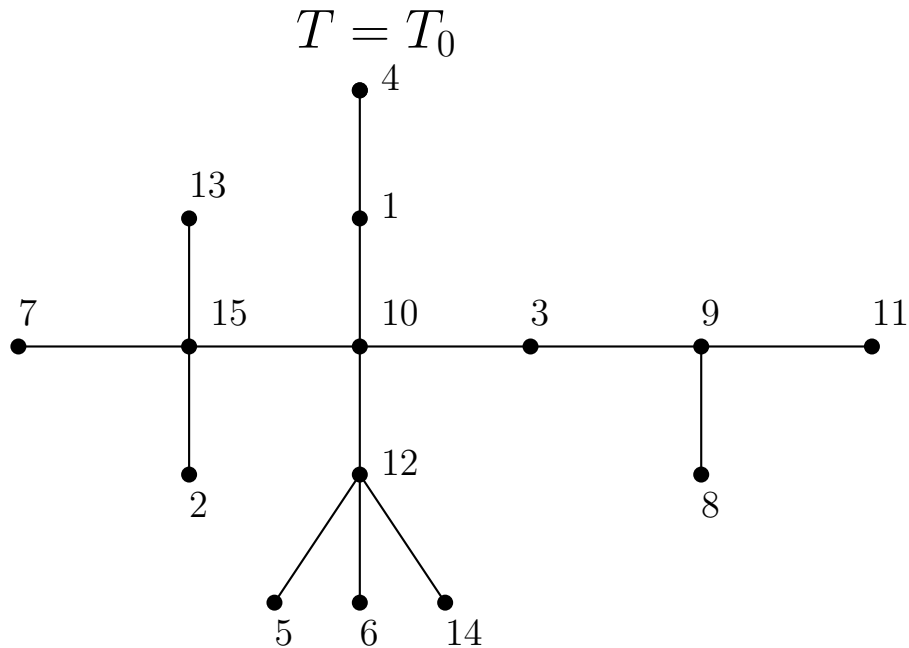
Vèrtexs de l'arbre

# Seqüència de Prüfer d'un arbre d'ordre $\geq 3$

Seqüència de Prüfer



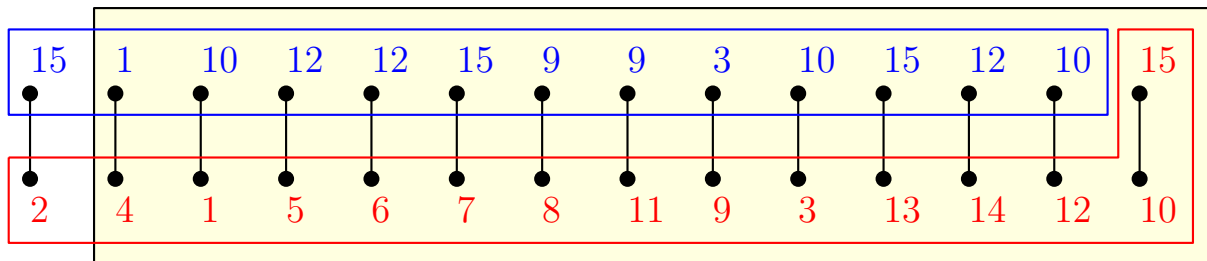
Vèrtexs de l'arbre



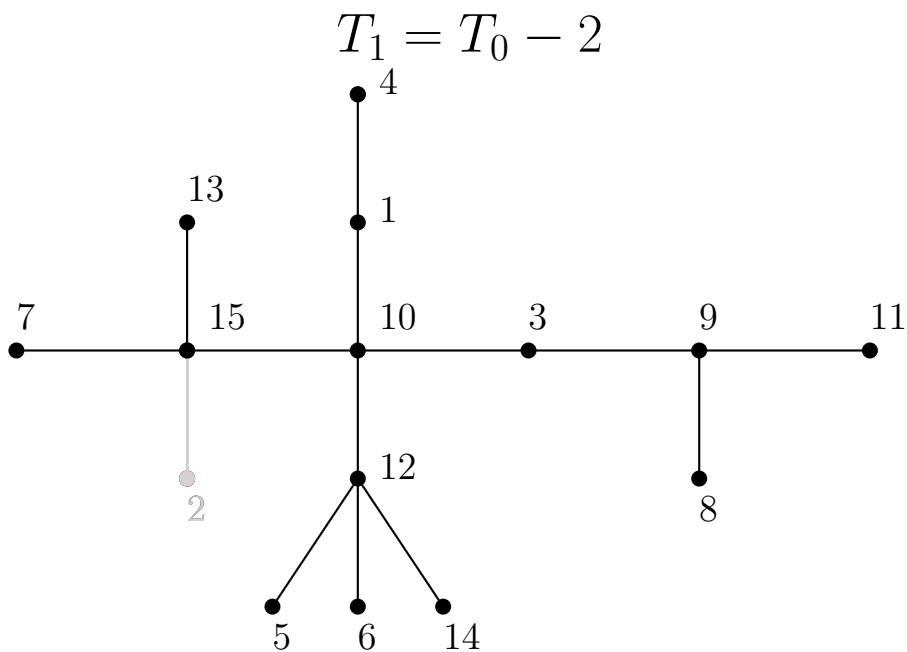


# Seqüència de Prüfer d'un arbre d'ordre $\geq 3$

Seqüència de Prüfer

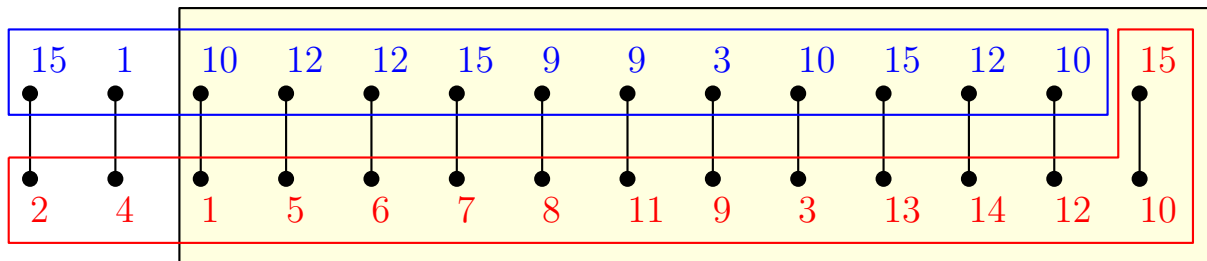


Vèrtexs de l'arbre

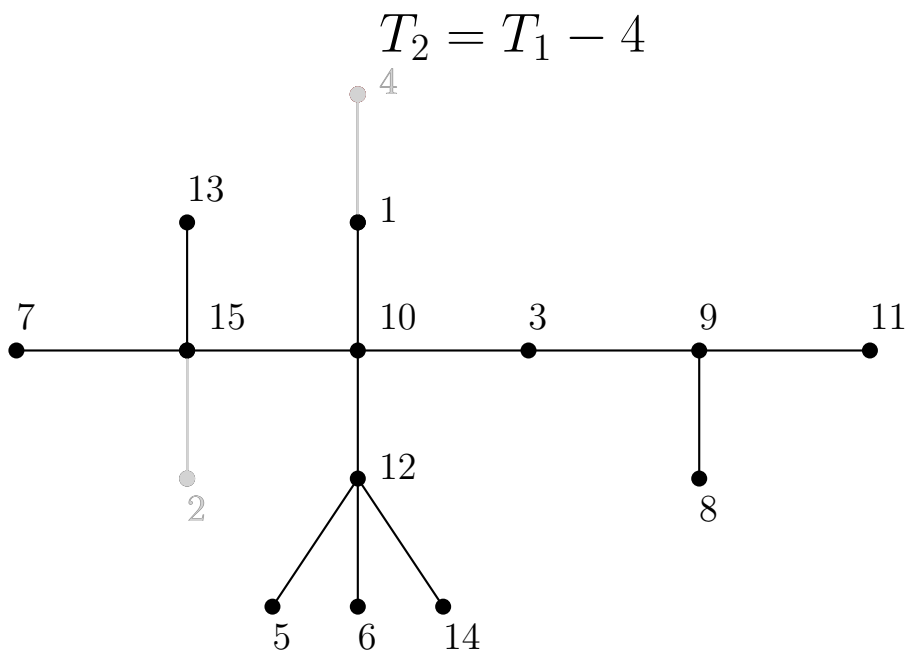


# Seqüència de Prüfer d'un arbre d'ordre $\geq 3$

Seqüència de Prüfer

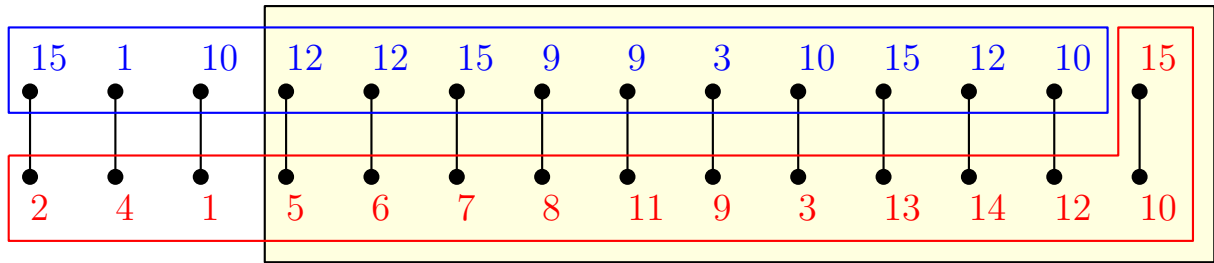


Vèrtexs de l'arbre



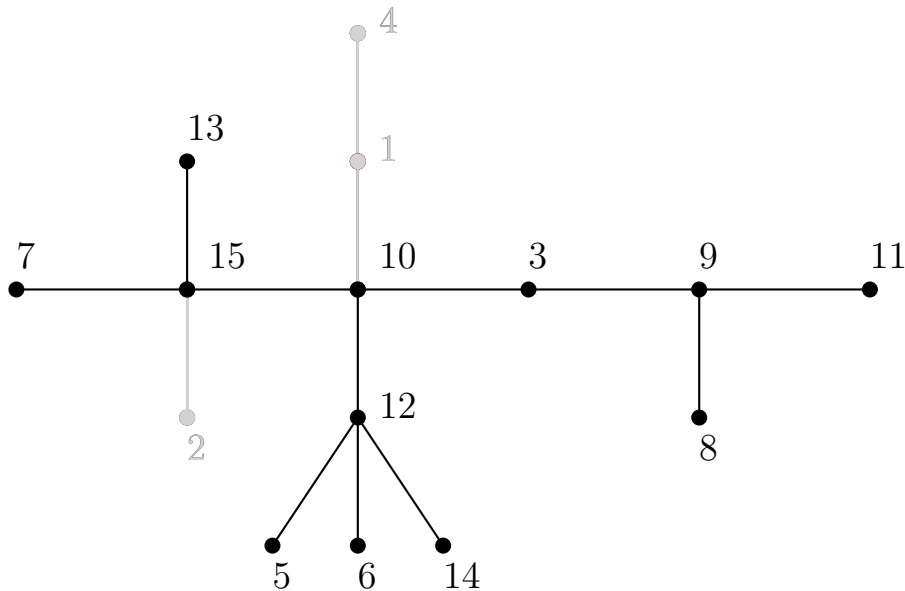
# Seqüència de Prüfer d'un arbre d'ordre $\geq 3$

Seqüència de Prüfer



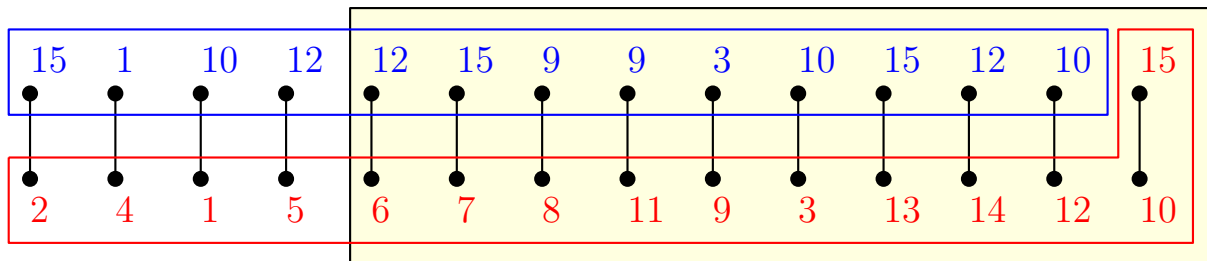
Vèrtexs de l'arbre

$$T_3 = T_2 - 1$$



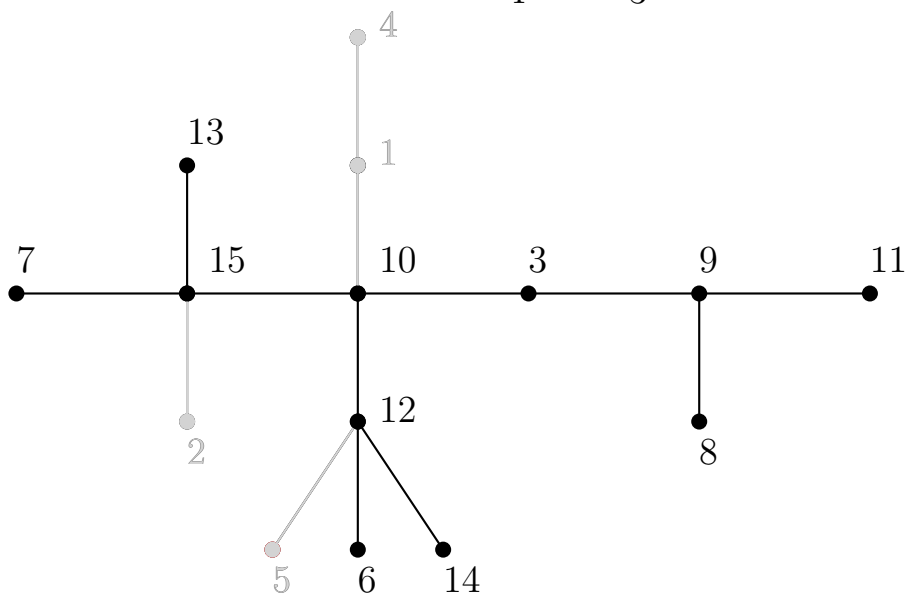
# Seqüència de Prüfer d'un arbre d'ordre $\geq 3$

Seqüència de Prüfer



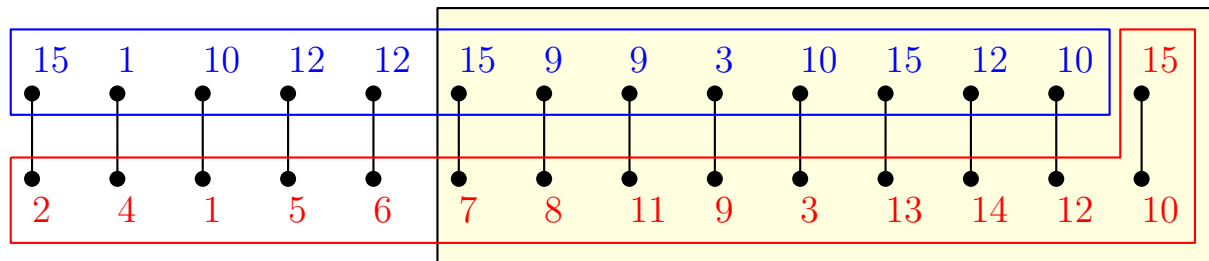
Vèrtexs de l'arbre

$$T_4 = T_3 - 5$$



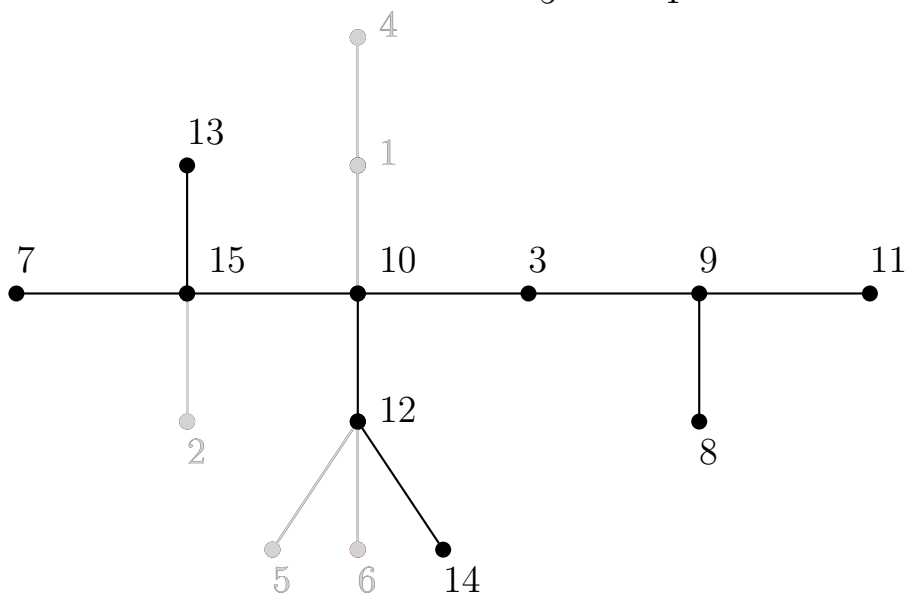
## Seqüència de Prüfer d'un arbre d'ordre $\geq 3$

## Seqüència de Prüfer



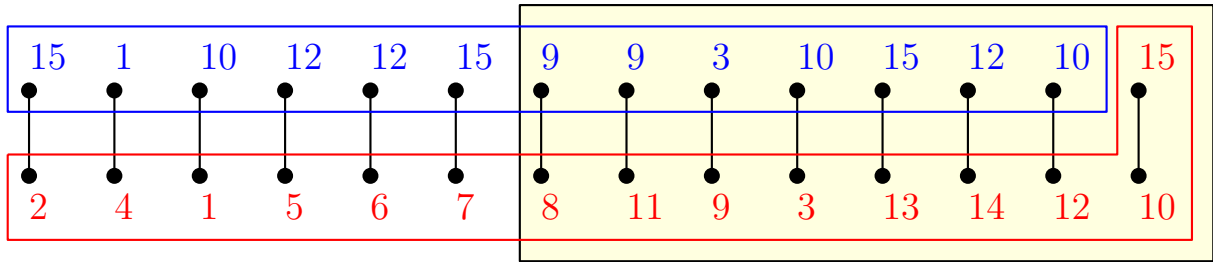
## Vèrtexs de l'arbre

$$T_5 = T_4 - 6$$



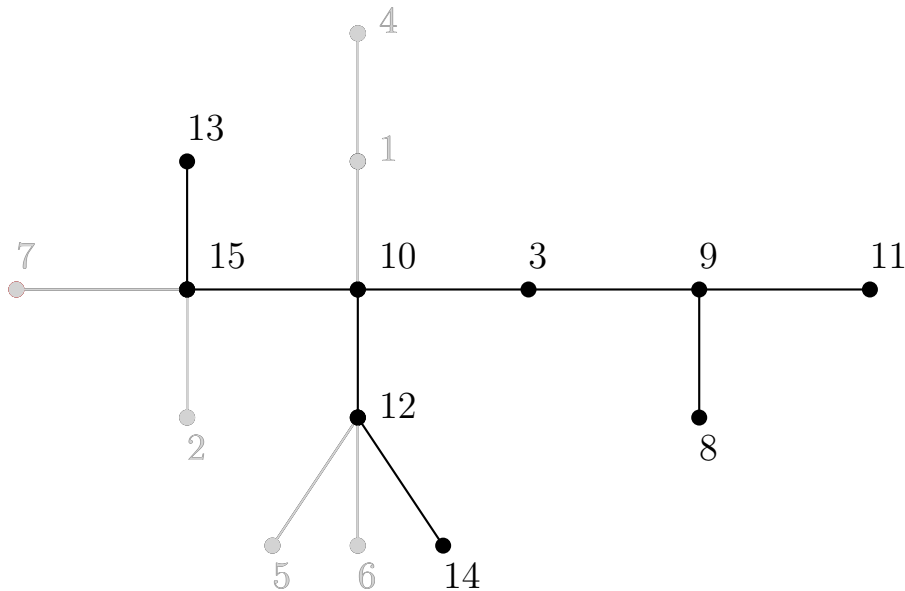
# Seqüència de Prüfer d'un arbre d'ordre $\geq 3$

Seqüència de Prüfer



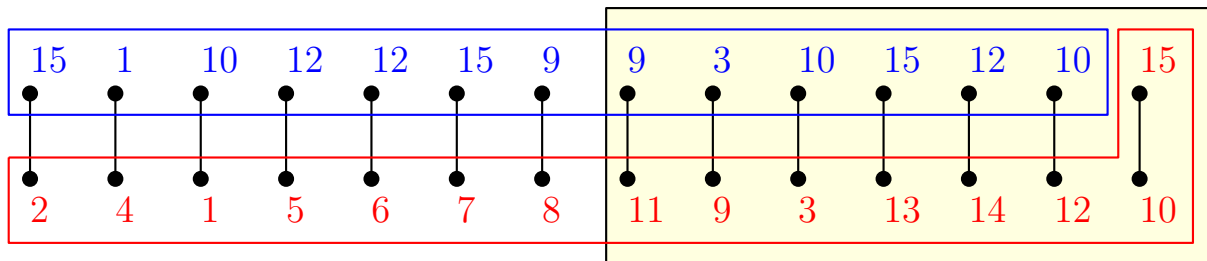
Vèrtexs de l'arbre

$$T_6 = T_5 - 7$$



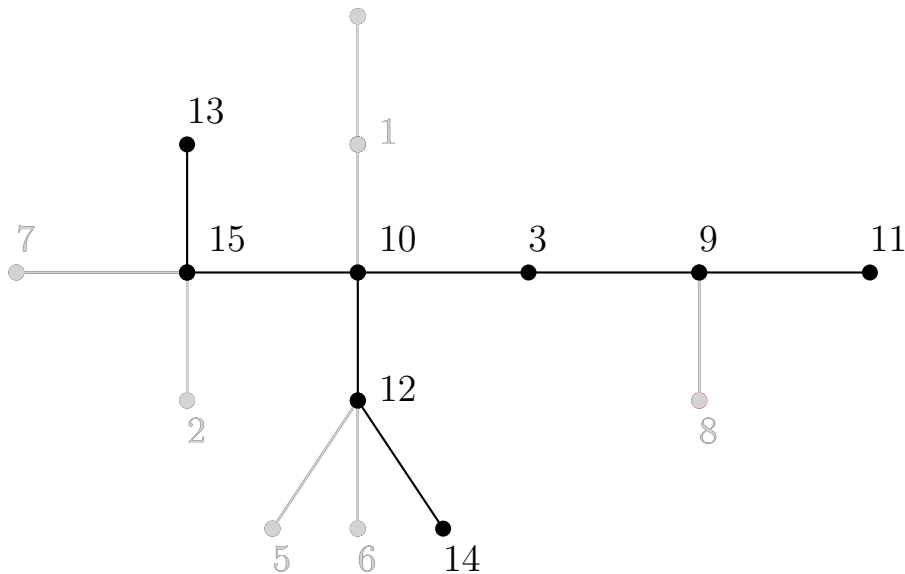
# Seqüència de Prüfer d'un arbre d'ordre $\geq 3$

Seqüència de Prüfer



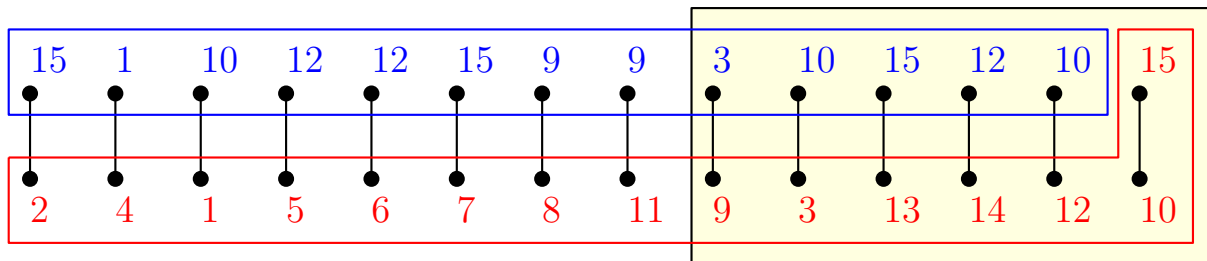
Vèrtexs de l'arbre

$$T_7 = T_6 - 8$$



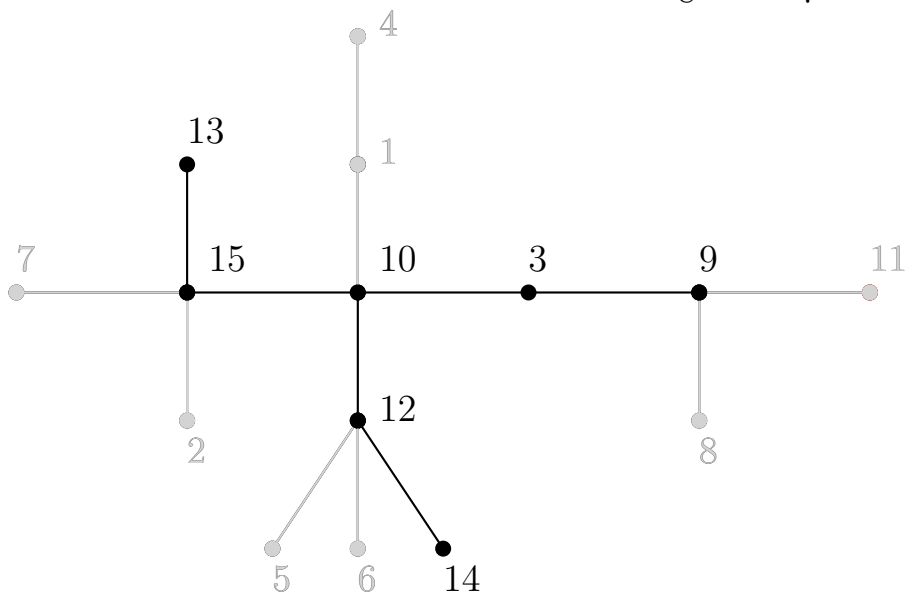
# Seqüència de Prüfer d'un arbre d'ordre $\geq 3$

Seqüència de Prüfer



Vèrtexs de l'arbre

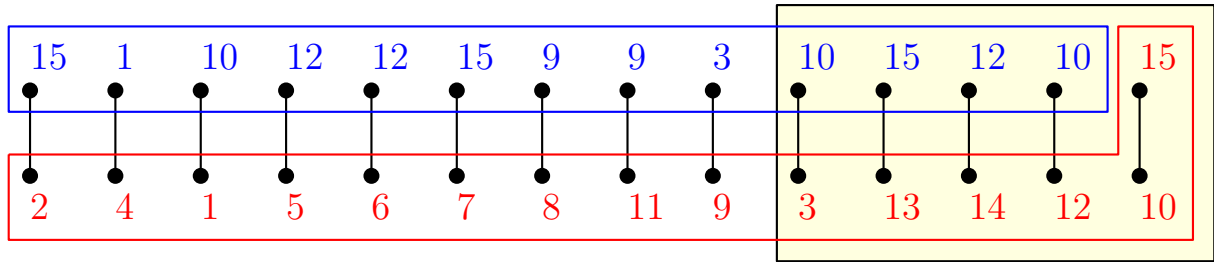
$$T_8 = T_7 - 11$$





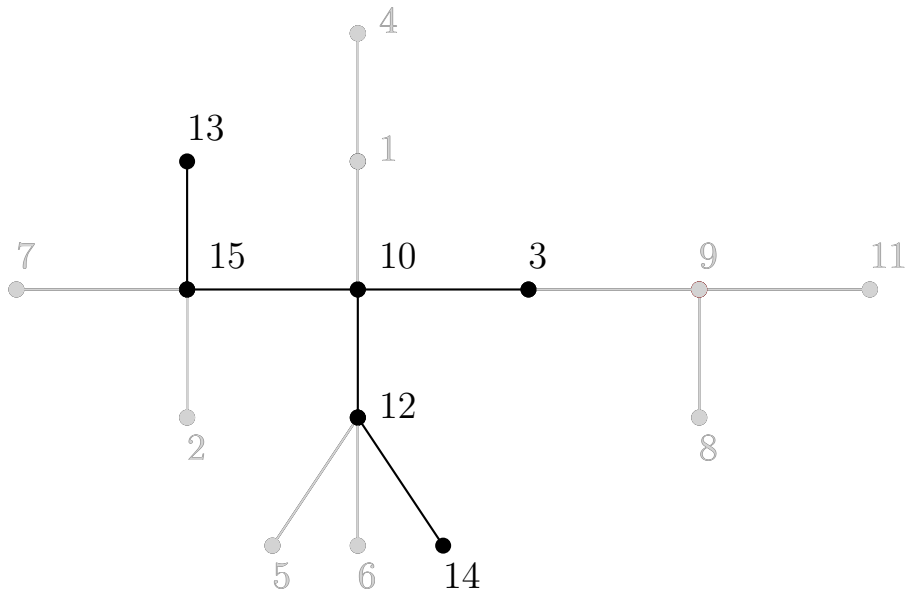
# Seqüència de Prüfer d'un arbre d'ordre $\geq 3$

Seqüència de Prüfer



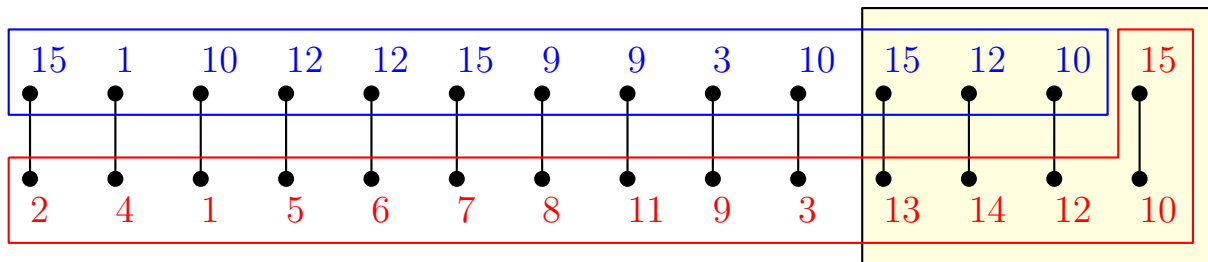
Vèrtexs de l'arbre

$$T_9 = T_8 - 9$$



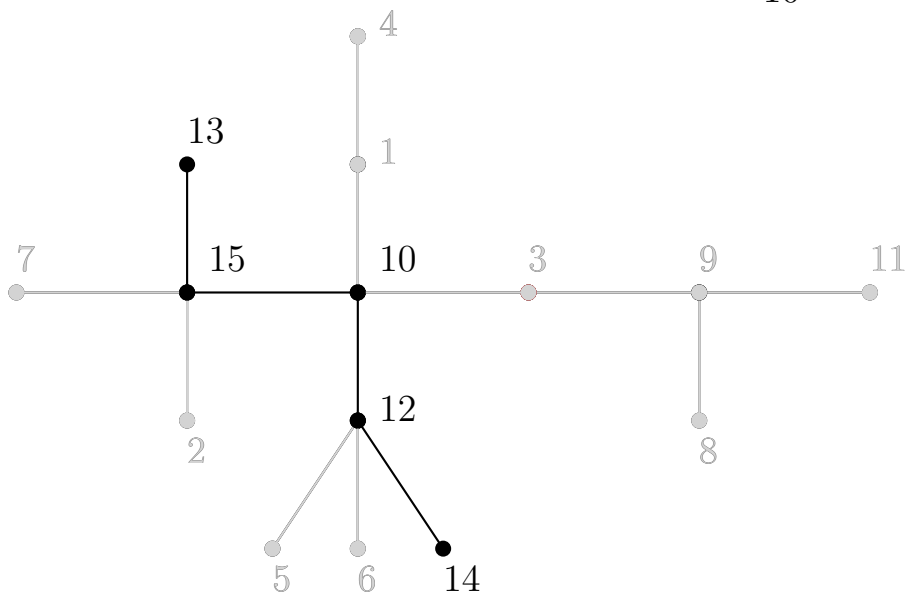
# Seqüència de Prüfer d'un arbre d'ordre $\geq 3$

Seqüència de Prüfer



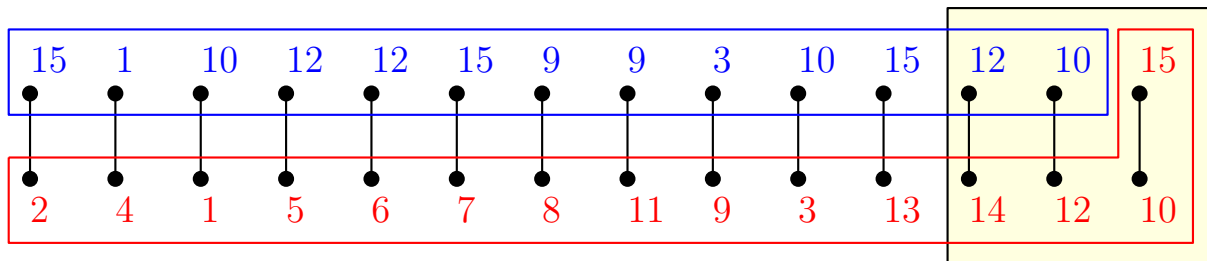
Vèrtexs de l'arbre

$$T_{10} = T_9 - 3$$



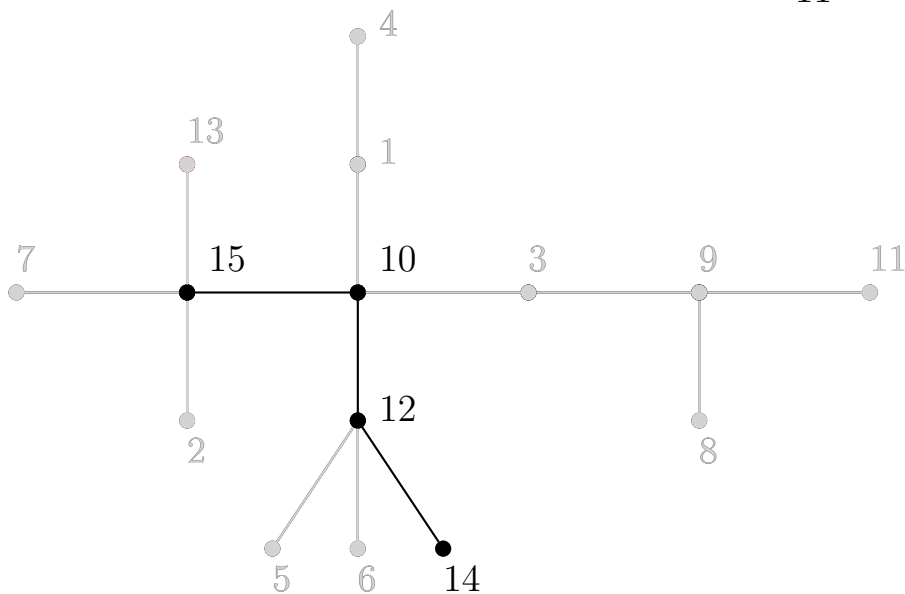
# Seqüència de Prüfer d'un arbre d'ordre $\geq 3$

Seqüència de Prüfer



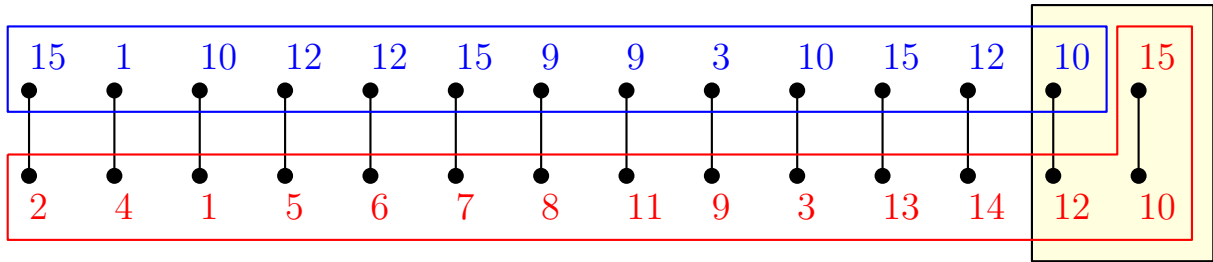
Vèrtexs de l'arbre

$$T_{11} = T_{10} - 13$$



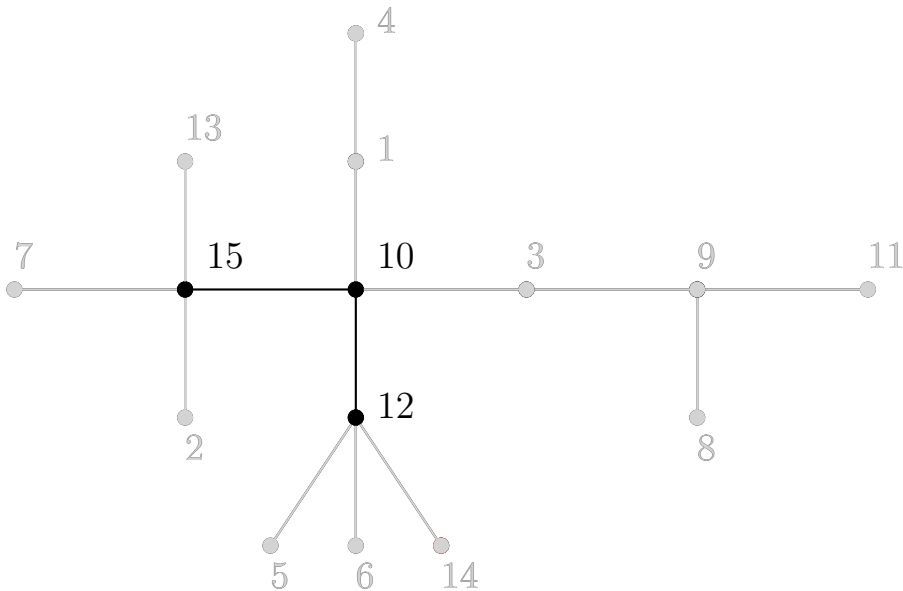
# Seqüència de Prüfer d'un arbre d'ordre $\geq 3$

Seqüència de Prüfer



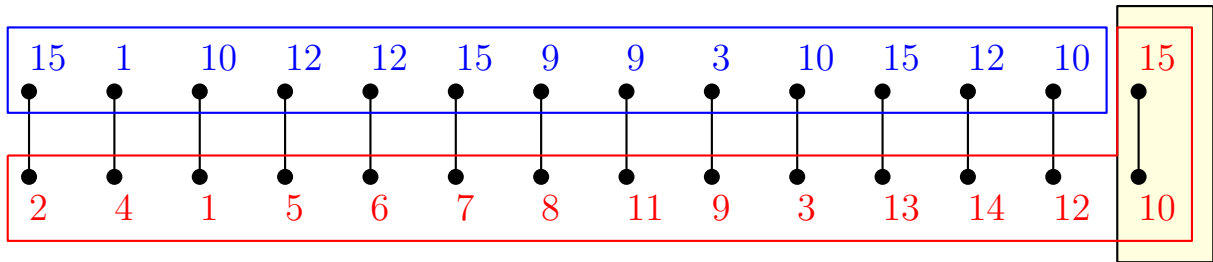
Vèrtexs de l'arbre

$$T_{12} = T_{11} - 14$$



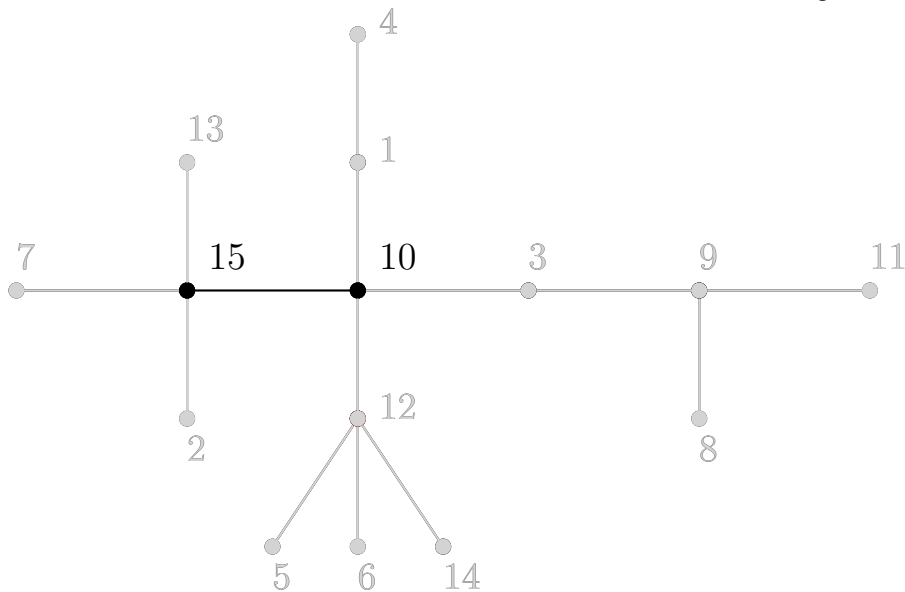
# Seqüència de Prüfer d'un arbre d'ordre $\geq 3$

Seqüència de Prüfer



Vèrtexs de l'arbre

$$T_{13} = T_{12} - 12$$



# Reconstrucció d'un arbre a partir de la seqüència de Prüfer

Seqüència de Prüfer: (15, 1, 10, 12, 12, 15, 9, 9, 3, 10, 15, 12, 10)

## Reconstrucció d'un arbre a partir de la seqüència de Prüfer

Seqüència de Prüfer:  $(15, 1, 10, 12, 12, 15, 9, 9, 3, 10, 15, 12, 10)$

té longitud 13, per tant és la seqüència de Prüfer d'un arbre d'ordre 15

## Reconstrucció d'un arbre a partir de la seqüència de Prüfer

Seqüència de Prüfer:  $(15, 1, 10, 12, 12, 15, 9, 9, 3, 10, 15, 12, 10)$

té longitud 13, per tant és la seqüència de Prüfer d'un arbre d'ordre 15

$S :=$  seqüència de Prüfer de l'arbre  $T_i$ ,  $i = 0, 1, 2, 3, \dots, 13$

$V :=$  vèrtexs de l'arbre  $T_i$

$P :=$  vèrtexs de l'arbre  $T_i$  que apareixen a la seqüència de Prüfer

$W = V \setminus P :=$  vèrtexs de l'arbre  $T_i$  que NO apareixen a la seqüència de Prüfer

$\min W$  és adjacent al primer valor de la seqüència de Prüfer



# Reconstrucció d'un arbre a partir de la seqüència de Prüfer

$$S := (15, 1, 10, 12, 12, 15, 9, 9, 3, 10, 15, 12, 10)$$

$$V := \{1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15\}$$

$$P := \{ \quad \quad \quad \}$$

$$W = V \setminus P := \{ \quad \quad \quad \}$$

$$\min W :=$$

$$A(T) := \left\{ \quad \quad \quad \right\}$$

## Reconstrucció d'un arbre a partir de la seqüència de Prüfer

$$T_0 \quad \boxed{\begin{array}{l} S := (15, 1, 10, 12, 12, 15, 9, 9, 3, 10, 15, 12, 10) \\ V := \{1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15\} \end{array}}$$

$$P := \{ \quad \quad \quad \}$$

$$W = V \setminus P := \{ \quad \quad \quad \}$$

$$\text{min } W :=$$

$$A(T) := \left\{ \quad \quad \quad \right\}$$

# Reconstrucció d'un arbre a partir de la seqüència de Prüfer

$$T_0 \quad \boxed{\begin{array}{l} S := (15, 1, 10, 12, 12, 15, 9, 9, 3, 10, 15, 12, 10) \\ V := \{1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15\} \end{array}}$$

$$P := \{ 1, \quad 3, \quad \quad \quad 9, 10, \quad 12, \quad \quad \quad 15 \}$$

$$W = V \setminus P := \{ \quad 2, \quad 4, 5, 6, 7, 8, \quad \quad \quad 11, \quad \quad 13, 14, \quad \}$$

$$\text{min } W :=$$

$$A(T) := \left\{ \quad \quad \quad \right\}$$

# Reconstrucció d'un arbre a partir de la seqüència de Prüfer

$$T_0 \quad \boxed{\begin{array}{l} S := (15, 1, 10, 12, 12, 15, 9, 9, 3, 10, 15, 12, 10) \\ V := \{1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15\} \end{array}}$$

$$P := \{ 1, \quad 3, \quad \quad \quad 9, 10, \quad 12, \quad \quad \quad 15 \}$$

$$W = V \setminus P := \{ \quad 2, \quad 4, 5, 6, 7, 8, \quad \quad 11, \quad 13, 14, \quad \}$$

$$\min W := 2$$

$$A(T) := \left\{ \quad \quad \quad \right\}$$

# Reconstrucció d'un arbre a partir de la seqüència de Prüfer

$$T_0 \quad \boxed{\begin{array}{l} S := (15, 1, 10, 12, 12, 15, 9, 9, 3, 10, 15, 12, 10) \\ V := \{1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15\} \end{array}}$$

$$P := \{ 1, \quad 3, \quad \quad \quad 9, 10, \quad \quad 12, \quad \quad \quad 15 \}$$

$$W = V \setminus P := \{ \quad 2, \quad 4, 5, 6, 7, 8, \quad \quad 11, \quad \quad 13, 14, \quad \}$$

$$\min W := 2$$

$$A(T) := \left\{ \begin{array}{c} 15 \\ \bullet \\ \vdots \\ \bullet \\ 2 \end{array} \right\}$$

# Reconstrucció d'un arbre a partir de la seqüència de Prüfer

$$T_1 \quad \boxed{\begin{array}{l} S := (1, 10, 12, 12, 15, 9, 9, 3, 10, 15, 12, 10) \\ V := \{1, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15\} \end{array}}$$

$$P := \{1, 3, 9, 10, 12, 15\}$$

$$W = V \setminus P := \{4, 5, 6, 7, 8, 11, 13, 14\}$$

$$\min W :=$$

$$A(T) := \left\{ \begin{array}{c} 15 \\ \bullet \\ \vdots \\ \bullet \\ 2 \end{array} \right\}$$

# Reconstrucció d'un arbre a partir de la seqüència de Prüfer

$$T_1 \quad \boxed{\begin{array}{l} S := (1, 10, 12, 12, 15, 9, 9, 3, 10, 15, 12, 10) \\ V := \{1, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15\} \end{array}}$$

$$P := \{1, 3, 9, 10, 12, 15\}$$

$$W = V \setminus P := \{4, 5, 6, 7, 8, 11, 13, 14\}$$

$$\min W := 4$$

$$A(T) := \left\{ \begin{array}{c} 15 \\ \bullet \\ \vdots \\ \bullet \\ 2 \end{array} \right\}$$

# Reconstrucció d'un arbre a partir de la seqüència de Prüfer

$$T_1 \quad \boxed{\begin{array}{l} S := (1, 10, 12, 12, 15, 9, 9, 3, 10, 15, 12, 10) \\ V := \{1, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15\} \end{array}}$$

$$P := \{1, 3, 9, 10, 12, 15\}$$

$$W = V \setminus P := \{4, 5, 6, 7, 8, 11, 13, 14\}$$

$$\min W := 4$$

$$A(T) := \left\{ \begin{array}{cc} 15 & 1 \\ \vdots & \vdots \\ 2 & 4 \end{array} \right\}$$



# Reconstrucció d'un arbre a partir de la seqüència de Prüfer

$$T_2 \quad \boxed{\begin{array}{l} S := ( \quad 10, 12, 12, 15, 9, 9, 3, 10, 15, 12, 10) \\ V := \{1, \quad 3, \quad 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15 \} \end{array}}$$

$$P := \{ \quad 3, \quad \quad \quad 9, 10, \quad \quad 12, \quad \quad \quad 15 \}$$

$$W = V \setminus P := \{ \quad 1, \quad \quad \quad 5, 6, 7, 8, \quad \quad \quad 11, \quad \quad \quad 13, 14, \quad \}$$

$$\text{min } W :=$$

$$A(T) := \left\{ \begin{array}{cc} 15 & 1 \\ \vdots & \vdots \\ 2 & 4 \end{array}, \right\}$$

# Reconstrucció d'un arbre a partir de la seqüència de Prüfer

$$T_2 \quad \boxed{\begin{array}{l} S := ( \quad 10, 12, 12, 15, 9, 9, 3, 10, 15, 12, 10) \\ V := \{1, \quad 3, \quad 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15 \} \end{array}}$$

$$P := \{ \quad 3, \quad \quad \quad 9, 10, \quad \quad 12, \quad \quad \quad 15 \}$$

$$W = V \setminus P := \{ \quad 1, \quad \quad \quad 5, 6, 7, 8, \quad \quad \quad 11, \quad \quad \quad 13, 14, \quad \}$$

$$\text{min } W := \quad 1$$

$$A(T) := \left\{ \begin{array}{cc} 15 & 1 \\ \vdots & \vdots \\ 2 & 4 \end{array}, \right\}$$

# Reconstrucció d'un arbre a partir de la seqüència de Prüfer

$$T_2 \quad \boxed{\begin{array}{l} S := ( \quad 10, 12, 12, 15, 9, 9, 3, 10, 15, 12, 10) \\ V := \{1, \quad 3, \quad 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15 \} \end{array}}$$

$$P := \{ \quad 3, \quad \quad \quad 9, 10, \quad \quad 12, \quad \quad \quad 15 \}$$

$$W = V \setminus P := \{ \quad 1, \quad \quad \quad 5, 6, 7, 8, \quad \quad \quad 11, \quad \quad \quad 13, 14, \quad \}$$

$$\text{min } W := \quad 1$$

$$A(T) := \left\{ \begin{array}{c} 15 \\ \vdots \\ 2 \end{array}, \begin{array}{c} 1 \\ \vdots \\ 4 \end{array}, \begin{array}{c} 10 \\ \vdots \\ 1 \end{array} \right\}$$

# Reconstrucció d'un arbre a partir de la seqüència de Prüfer

$$T_3 \quad \boxed{\begin{array}{l} S := ( \quad \quad \quad 12, 12, 15, 9, 9, 3, 10, 15, 12, 10) \\ V := \{ \quad \quad 3, \quad \quad 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15 \} \end{array}}$$

$$P := \{ \quad \quad 3, \quad \quad \quad \quad \quad 9, 10, \quad \quad 12, \quad \quad \quad 15 \}$$

$$W = V \setminus P := \{ \quad \quad \quad 5, 6, 7, 8, \quad \quad \quad 11, \quad \quad 13, 14, \quad \}$$

$$\text{min } W :=$$

$$A(T) := \left\{ \begin{array}{c} 15 \\ \vdots \\ 2 \end{array}, \begin{array}{c} 1 \\ \vdots \\ 4 \end{array}, \begin{array}{c} 10 \\ \vdots \\ 1 \end{array} \right\}$$

# Reconstrucció d'un arbre a partir de la seqüència de Prüfer

$$T_3 \quad \boxed{\begin{array}{l} S := ( \quad \quad \quad 12, 12, 15, 9, 9, 3, 10, 15, 12, 10) \\ V := \{ \quad \quad 3, \quad \quad 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15 \} \end{array}}$$

$$P := \{ \quad \quad 3, \quad \quad \quad \quad 9, 10, \quad \quad 12, \quad \quad \quad 15 \}$$

$$W = V \setminus P := \{ \quad \quad \quad 5, 6, 7, 8, \quad \quad \quad 11, \quad \quad 13, 14, \quad \}$$

$$\text{min } W := 5$$

$$A(T) := \left\{ \begin{array}{c} 15 \\ \vdots \\ 2 \end{array}, \begin{array}{c} 1 \\ \vdots \\ 4 \end{array}, \begin{array}{c} 10 \\ \vdots \\ 1 \end{array} \right\}$$

# Reconstrucció d'un arbre a partir de la seqüència de Prüfer

$$T_3 \quad \boxed{\begin{array}{l} S := ( \quad \quad \quad 12, 12, 15, 9, 9, 3, 10, 15, 12, 10) \\ V := \{ \quad \quad 3, \quad \quad 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15 \} \end{array}}$$

$$P := \{ \quad \quad 3, \quad \quad \quad \quad \quad 9, 10, \quad \quad 12, \quad \quad \quad 15 \}$$

$$W = V \setminus P := \{ \quad \quad \quad 5, 6, 7, 8, \quad \quad \quad 11, \quad \quad 13, 14, \quad \}$$

$$\text{min } W := 5$$

$$A(T) := \left\{ \begin{array}{c} 15 \\ \vdots \\ 2 \end{array}, \begin{array}{c} 1 \\ \vdots \\ 4 \end{array}, \begin{array}{c} 10 \\ \vdots \\ 1 \end{array}, \begin{array}{c} 12 \\ \vdots \\ 5 \end{array} \right\}$$

# Reconstrucció d'un arbre a partir de la seqüència de Prüfer

$$T_4 \quad \boxed{\begin{array}{l} S := ( \quad \quad \quad 12, 15, 9, 9, 3, 10, 15, 12, 10) \\ V := \{ \quad 3, \quad \quad 6, 7, 8, 9, 10, 11, 12, 13, 14, 15 \} \end{array}}$$

$$P := \{ \quad 3, \quad \quad \quad 9, 10, \quad \quad 12, \quad \quad \quad 15 \}$$

$$W = V \setminus P := \{ \quad \quad \quad 6, 7, 8, \quad \quad \quad 11, \quad \quad 13, 14, \quad \}$$

$$\text{min } W :=$$

$$A(T) := \left\{ \begin{array}{c} 15 \\ \bullet \\ \vdots \\ 2 \end{array}, \begin{array}{c} 1 \\ \bullet \\ \vdots \\ 4 \end{array}, \begin{array}{c} 10 \\ \bullet \\ \vdots \\ 1 \end{array}, \begin{array}{c} 12 \\ \bullet \\ \vdots \\ 5 \end{array} \right\}$$

# Reconstrucció d'un arbre a partir de la seqüència de Prüfer

$$T_4 \quad \boxed{\begin{array}{l} S := ( \quad \quad \quad 12, 15, 9, 9, 3, 10, 15, 12, 10) \\ V := \{ \quad 3, \quad \quad 6, 7, 8, 9, 10, 11, 12, 13, 14, 15 \} \end{array}}$$

$$P := \{ \quad 3, \quad \quad \quad 9, 10, \quad \quad 12, \quad \quad \quad 15 \}$$

$$W = V \setminus P := \{ \quad \quad \quad 6, 7, 8, \quad \quad \quad 11, \quad \quad 13, 14, \quad \}$$

$$\text{min } W := 6$$

$$A(T) := \left\{ \begin{array}{c} 15 \\ \bullet \\ \vdots \\ 2 \end{array}, \begin{array}{c} 1 \\ \bullet \\ \vdots \\ 4 \end{array}, \begin{array}{c} 10 \\ \bullet \\ \vdots \\ 1 \end{array}, \begin{array}{c} 12 \\ \bullet \\ \vdots \\ 5 \end{array} \right\}$$



# Reconstrucció d'un arbre a partir de la seqüència de Prüfer

$$T_4 \quad \boxed{\begin{array}{l} S := ( \quad \quad \quad 12, 15, 9, 9, 3, 10, 15, 12, 10) \\ V := \{ \quad 3, \quad \quad 6, 7, 8, 9, 10, 11, 12, 13, 14, 15 \} \end{array}}$$

$$P := \{ \quad 3, \quad \quad \quad 9, 10, \quad \quad 12, \quad \quad 15 \}$$

$$W = V \setminus P := \{ \quad \quad \quad 6, 7, 8, \quad \quad 11, \quad \quad 13, 14, \quad \}$$

$$\text{min } W := 6$$

$$A(T) := \left\{ \begin{array}{c} 15 \quad 1 \quad 10 \quad 12 \quad 12 \\ \bullet \quad \bullet \quad \bullet \quad \bullet \quad \bullet \\ \vdots \quad \vdots \quad \vdots \quad \vdots \quad \vdots \\ 2 \quad 4 \quad 1 \quad 5 \quad 6 \end{array} \right\}$$

# Reconstrucció d'un arbre a partir de la seqüència de Prüfer

$$T_5 \quad \boxed{\begin{array}{l} S := ( \quad \quad \quad 15, 9, 9, 3, 10, 15, 12, 10) \\ V := \{ \quad 3, \quad \quad 7, 8, 9, 10, 11, 12, 13, 14, 15 \} \end{array}}$$

$$P := \{ \quad 3, \quad \quad 9, 10, \quad 12, \quad 15 \}$$

$$W = V \setminus P := \{ \quad 7, 8, \quad 11, \quad 13, 14, \quad \}$$

$$\text{min } W :=$$

$$A(T) := \left\{ \begin{array}{c} 15 \\ \bullet \\ \vdots \\ 2 \end{array}, \begin{array}{c} 1 \\ \bullet \\ \vdots \\ 4 \end{array}, \begin{array}{c} 10 \\ \bullet \\ \vdots \\ 1 \end{array}, \begin{array}{c} 12 \\ \bullet \\ \vdots \\ 5 \end{array}, \begin{array}{c} 12 \\ \bullet \\ \vdots \\ 6 \end{array} \right\}$$

# Reconstrucció d'un arbre a partir de la seqüència de Prüfer

$$T_5 \quad \boxed{\begin{array}{l} S := ( \quad \quad \quad 15, 9, 9, 3, 10, 15, 12, 10) \\ V := \{ \quad \quad 3, \quad \quad \quad 7, 8, 9, 10, 11, 12, 13, 14, 15 \} \end{array}}$$

$$P := \{ \quad \quad 3, \quad \quad \quad 9, 10, \quad \quad 12, \quad \quad \quad 15 \}$$

$$W = V \setminus P := \{ \quad \quad \quad 7, 8, \quad \quad \quad 11, \quad \quad 13, 14, \quad \}$$

$$\text{min } W := \textcolor{red}{7}$$

$$A(T) := \left\{ \begin{array}{c} 15 \quad 1 \quad 10 \quad 12 \quad 12 \\ \bullet \quad \bullet \quad \bullet \quad \bullet \quad \bullet \\ \vdots \quad \vdots \quad \vdots \quad \vdots \quad \vdots \\ 2 \quad 4 \quad 1 \quad 5 \quad 6 \end{array} \right\}$$

# Reconstrucció d'un arbre a partir de la seqüència de Prüfer

$$T_5 \quad \boxed{\begin{array}{l} S := ( \quad \quad \quad 15, 9, 9, 3, 10, 15, 12, 10) \\ V := \{ \quad 3, \quad \quad 7, 8, 9, 10, 11, 12, 13, 14, 15 \} \end{array}}$$

$$P := \{ \quad 3, \quad \quad 9, 10, \quad 12, \quad 15 \}$$

$$W = V \setminus P := \{ \quad 7, 8, \quad 11, \quad 13, 14, \quad \}$$

$$\text{min } W := 7$$

$$A(T) := \left\{ \begin{array}{c} 15 \\ \bullet \\ \vdots \\ 2 \end{array}, \begin{array}{c} 1 \\ \bullet \\ \vdots \\ 4 \end{array}, \begin{array}{c} 10 \\ \bullet \\ \vdots \\ 1 \end{array}, \begin{array}{c} 12 \\ \bullet \\ \vdots \\ 5 \end{array}, \begin{array}{c} 12 \\ \bullet \\ \vdots \\ 6 \end{array}, \begin{array}{c} 15 \\ \bullet \\ \vdots \\ 7 \end{array} \right\}$$

# Reconstrucció d'un arbre a partir de la seqüència de Prüfer

$$T_6 \quad \boxed{\begin{array}{l} S := ( \quad \quad \quad 9, 9, 3, 10, 15, 12, 10) \\ V := \{ \quad 3, \quad \quad \quad 8, 9, 10, 11, 12, 13, 14, 15 \} \end{array}}$$

$$P := \{ \quad 3, \quad \quad \quad 9, 10, \quad \quad 12, \quad \quad \quad 15 \}$$

$$W = V \setminus P := \{ \quad \quad \quad 8, \quad \quad \quad 11, \quad \quad 13, 14, \quad \}$$

$$\text{min } W :=$$

$$A(T) := \left\{ \begin{array}{c} 15 \\ \bullet \\ \vdots \\ 2 \end{array}, \begin{array}{c} 1 \\ \bullet \\ \vdots \\ 4 \end{array}, \begin{array}{c} 10 \\ \bullet \\ \vdots \\ 1 \end{array}, \begin{array}{c} 12 \\ \bullet \\ \vdots \\ 5 \end{array}, \begin{array}{c} 12 \\ \bullet \\ \vdots \\ 6 \end{array}, \begin{array}{c} 15 \\ \bullet \\ \vdots \\ 7 \end{array} \right\}$$

# Reconstrucció d'un arbre a partir de la seqüència de Prüfer

$$T_6 \quad \boxed{\begin{array}{l} S := ( \quad \quad \quad 9, 9, 3, 10, 15, 12, 10) \\ V := \{ \quad 3, \quad \quad \quad 8, 9, 10, 11, 12, 13, 14, 15 \} \end{array}}$$

$$P := \{ \quad 3, \quad \quad \quad 9, 10, \quad \quad 12, \quad \quad \quad 15 \}$$

$$W = V \setminus P := \{ \quad \quad \quad 8, \quad \quad \quad 11, \quad \quad 13, 14, \quad \}$$

$$\text{min } W := 8$$

$$A(T) := \left\{ \begin{array}{c} 15 \\ \bullet \\ \vdots \\ 2 \end{array}, \begin{array}{c} 1 \\ \bullet \\ \vdots \\ 4 \end{array}, \begin{array}{c} 10 \\ \bullet \\ \vdots \\ 1 \end{array}, \begin{array}{c} 12 \\ \bullet \\ \vdots \\ 5 \end{array}, \begin{array}{c} 12 \\ \bullet \\ \vdots \\ 6 \end{array}, \begin{array}{c} 15 \\ \bullet \\ \vdots \\ 7 \end{array} \right\}$$

# Reconstrucció d'un arbre a partir de la seqüència de Prüfer

$$T_6 \quad \boxed{\begin{array}{l} S := ( \quad \quad \quad 9, 9, 3, 10, 15, 12, 10) \\ V := \{ \quad 3, \quad \quad \quad 8, 9, 10, 11, 12, 13, 14, 15 \} \end{array}}$$

$$P := \{ \quad 3, \quad \quad \quad 9, 10, \quad \quad 12, \quad \quad \quad 15 \}$$

$$W = V \setminus P := \{ \quad \quad \quad 8, \quad \quad \quad 11, \quad \quad 13, 14, \quad \}$$

$$\text{min } W := 8$$

$$A(T) := \left\{ \begin{array}{c} 15 \\ \bullet \\ \vdots \\ 2 \end{array}, \begin{array}{c} 1 \\ \bullet \\ \vdots \\ 4 \end{array}, \begin{array}{c} 10 \\ \bullet \\ \vdots \\ 1 \end{array}, \begin{array}{c} 12 \\ \bullet \\ \vdots \\ 5 \end{array}, \begin{array}{c} 12 \\ \bullet \\ \vdots \\ 6 \end{array}, \begin{array}{c} 15 \\ \bullet \\ \vdots \\ 7 \end{array}, \begin{array}{c} 9 \\ \bullet \\ \vdots \\ 8 \end{array} \right\}$$

# Reconstrucció d'un arbre a partir de la seqüència de Prüfer

$$T_7 \quad \boxed{\begin{array}{l} S := ( \quad \quad \quad 9, 3, 10, 15, 12, 10) \\ V := \{ \quad 3, \quad \quad \quad 9, 10, 11, 12, 13, 14, 15 \} \end{array}}$$

$$P := \{ \quad 3, \quad \quad \quad 9, 10, \quad \quad 12, \quad \quad \quad 15 \}$$

$$W = V \setminus P := \{ \quad \quad \quad 11, \quad \quad 13, 14, \quad \}$$

$$\text{min } W :=$$

$$A(T) := \left\{ \begin{array}{c} 15 \\ \bullet \\ \vdots \\ 2 \end{array}, \begin{array}{c} 1 \\ \bullet \\ \vdots \\ 4 \end{array}, \begin{array}{c} 10 \\ \bullet \\ \vdots \\ 1 \end{array}, \begin{array}{c} 12 \\ \bullet \\ \vdots \\ 5 \end{array}, \begin{array}{c} 12 \\ \bullet \\ \vdots \\ 6 \end{array}, \begin{array}{c} 15 \\ \bullet \\ \vdots \\ 7 \end{array}, \begin{array}{c} 9 \\ \bullet \\ \vdots \\ 8 \end{array} \right\}$$



# Reconstrucció d'un arbre a partir de la seqüència de Prüfer

$$T_7 \quad \boxed{\begin{array}{l} S := ( \quad \quad \quad 9, 3, 10, 15, 12, 10) \\ V := \{ \quad 3, \quad \quad \quad 9, 10, 11, 12, 13, 14, 15 \} \end{array}}$$

$$P := \{ \quad 3, \quad \quad \quad 9, 10, \quad \quad 12, \quad \quad \quad 15 \}$$

$$W = V \setminus P := \{ \quad \quad \quad 11, \quad \quad 13, 14, \quad \}$$

$$\text{min } W := 11$$

$$A(T) := \left\{ \begin{array}{c} 15 \quad 1 \quad 10 \quad 12 \quad 12 \quad 15 \quad 9 \\ \vdots \quad \vdots \quad \vdots \quad \vdots \quad \vdots \quad \vdots \quad \vdots \\ 2 \quad 4 \quad 1 \quad 5 \quad 6 \quad 7 \quad 8 \end{array} \right\}$$

# Reconstrucció d'un arbre a partir de la seqüència de Prüfer

$$T_7 \quad \boxed{\begin{array}{l} S := ( \quad \quad \quad 9, 3, 10, 15, 12, 10) \\ V := \{ \quad 3, \quad \quad \quad 9, 10, 11, 12, 13, 14, 15 \} \end{array}}$$

$$P := \{ \quad 3, \quad \quad \quad 9, 10, \quad \quad 12, \quad \quad \quad 15 \}$$

$$W = V \setminus P := \{ \quad \quad \quad 11, \quad \quad 13, 14, \quad \}$$

$$\text{min } W := 11$$

$$A(T) := \left\{ \begin{array}{cccccccc} 15 & 1 & 10 & 12 & 12 & 15 & 9 & 9 \\ \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet \\ \vdots & \vdots & \vdots & \vdots & \vdots & \vdots & \vdots & \vdots \\ 2 & 4 & 1 & 5 & 6 & 7 & 8 & 11 \end{array} \right\}$$

# Reconstrucció d'un arbre a partir de la seqüència de Prüfer

$$T_8 \quad \boxed{\begin{array}{l} S := ( \quad \quad \quad 3, 10, 15, 12, 10) \\ V := \{ \quad 3, \quad \quad \quad 9, 10, \quad \quad 12, 13, 14, 15 \} \end{array}}$$

$$P := \{ \quad 3, \quad \quad \quad 10, \quad \quad 12, \quad \quad \quad 15 \}$$

$$W = V \setminus P := \{ \quad \quad \quad 9, \quad \quad \quad 13, 14, \quad \}$$

$$\text{min } W :=$$

$$A(T) := \left\{ \begin{array}{c} 15 \\ \bullet \\ \vdots \\ 2 \end{array}, \begin{array}{c} 1 \\ \bullet \\ \vdots \\ 4 \end{array}, \begin{array}{c} 10 \\ \bullet \\ \vdots \\ 1 \end{array}, \begin{array}{c} 12 \\ \bullet \\ \vdots \\ 5 \end{array}, \begin{array}{c} 12 \\ \bullet \\ \vdots \\ 6 \end{array}, \begin{array}{c} 15 \\ \bullet \\ \vdots \\ 7 \end{array}, \begin{array}{c} 9 \\ \bullet \\ \vdots \\ 8 \end{array}, \begin{array}{c} 9 \\ \bullet \\ \vdots \\ 11 \end{array} \right\}$$

# Reconstrucció d'un arbre a partir de la seqüència de Prüfer

$$\begin{array}{l}
 T_8 \\
 \boxed{
 \begin{array}{l}
 S := ( \qquad \qquad \qquad 3, 10, 15, 12, 10) \\
 V := \{ \qquad 3, \qquad \qquad 9, 10, \qquad 12, 13, 14, 15 \} \\
 P := \{ \qquad 3, \qquad \qquad 10, \qquad 12, \qquad 15 \} \\
 W = V \setminus P := \{ \qquad \qquad \qquad 9, \qquad \qquad 13, 14, \qquad \}
 \end{array}
 }
 \end{array}$$

$$\min W := 9$$

$$A(T) := \left\{ \begin{array}{c} 15 \\ \bullet \\ \vdots \\ 2 \end{array}, \begin{array}{c} 1 \\ \bullet \\ \vdots \\ 4 \end{array}, \begin{array}{c} 10 \\ \bullet \\ \vdots \\ 1 \end{array}, \begin{array}{c} 12 \\ \bullet \\ \vdots \\ 5 \end{array}, \begin{array}{c} 12 \\ \bullet \\ \vdots \\ 6 \end{array}, \begin{array}{c} 15 \\ \bullet \\ \vdots \\ 7 \end{array}, \begin{array}{c} 9 \\ \bullet \\ \vdots \\ 8 \end{array}, \begin{array}{c} 9 \\ \bullet \\ \vdots \\ 11 \end{array} \right\}$$

# Reconstrucció d'un arbre a partir de la seqüència de Prüfer

$$T_8 \quad \boxed{\begin{array}{l} S := ( \quad \quad \quad 3, 10, 15, 12, 10) \\ V := \{ \quad 3, \quad \quad \quad 9, 10, \quad \quad 12, 13, 14, 15 \} \end{array}}$$

$$P := \{ \quad 3, \quad \quad \quad 10, \quad \quad 12, \quad \quad \quad 15 \}$$

$$W = V \setminus P := \{ \quad \quad \quad 9, \quad \quad \quad 13, 14, \quad \}$$

$$\text{min } W := 9$$

$$A(T) := \left\{ \begin{array}{c} 15 \\ \bullet \\ \vdots \\ 2 \end{array}, \begin{array}{c} 1 \\ \bullet \\ \vdots \\ 4 \end{array}, \begin{array}{c} 10 \\ \bullet \\ \vdots \\ 1 \end{array}, \begin{array}{c} 12 \\ \bullet \\ \vdots \\ 5 \end{array}, \begin{array}{c} 12 \\ \bullet \\ \vdots \\ 6 \end{array}, \begin{array}{c} 15 \\ \bullet \\ \vdots \\ 7 \end{array}, \begin{array}{c} 9 \\ \bullet \\ \vdots \\ 8 \end{array}, \begin{array}{c} 9 \\ \bullet \\ \vdots \\ 11 \end{array}, \begin{array}{c} 3 \\ \bullet \\ \vdots \\ 9 \end{array} \right\}$$

# Reconstrucció d'un arbre a partir de la seqüència de Prüfer

$$T_9 \quad \boxed{\begin{array}{l} S := ( \quad \quad \quad 10, 15, 12, 10) \\ V := \{ \quad 3, \quad \quad 10, \quad \quad 12, 13, 14, 15 \} \end{array}}$$

$$P := \{ \quad \quad \quad 10, \quad \quad 12, \quad \quad 15 \}$$

$$W = V \setminus P := \{ \quad 3, \quad \quad \quad 13, 14, \quad \}$$

$$\text{min } W :=$$

$$A(T) := \left\{ \begin{array}{cccccccccc} 15 & 1 & 10 & 12 & 12 & 15 & 9 & 9 & 3 \\ \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet \\ \vdots & \vdots & \vdots & \vdots & \vdots & \vdots & \vdots & \vdots & \vdots \\ 2 & 4 & 1 & 5 & 6 & 7 & 8 & 11 & 9 \end{array} \right\}$$

# Reconstrucció d'un arbre a partir de la seqüència de Prüfer

$$T_9 \quad \boxed{\begin{array}{l} S := ( \qquad \qquad \qquad 10, 15, 12, 10) \\ V := \{ \qquad 3, \qquad \qquad 10, \qquad 12, 13, 14, 15 \} \end{array}}$$

$$P := \{ \qquad \qquad \qquad 10, \qquad 12, \qquad \qquad 15 \}$$

$$W = V \setminus P := \{ \qquad 3, \qquad \qquad \qquad 13, 14, \qquad \}$$

$$\text{min } W := 3$$

$$A(T) := \left\{ \begin{array}{cccccccccc} 15 & 1 & 10 & 12 & 12 & 15 & 9 & 9 & 3 \\ \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet \\ \vdots & \vdots & \vdots & \vdots & \vdots & \vdots & \vdots & \vdots & \vdots \\ 2 & 4 & 1 & 5 & 6 & 7 & 8 & 11 & 9 \end{array} \right\}$$

# Reconstrucció d'un arbre a partir de la seqüència de Prüfer

$$T_9 \quad \boxed{\begin{array}{l} S := ( \qquad \qquad \qquad 10, 15, 12, 10) \\ V := \{ \qquad 3, \qquad \qquad 10, \qquad 12, 13, 14, 15 \} \end{array}}$$

$$P := \{ \qquad \qquad \qquad 10, \qquad 12, \qquad \qquad 15 \}$$

$$W = V \setminus P := \{ \qquad 3, \qquad \qquad \qquad 13, 14, \qquad \}$$

$$\text{min } W := 3$$

$$A(T) := \left\{ \begin{array}{cccccccccc} 15 & 1 & 10 & 12 & 12 & 15 & 9 & 9 & 3 & 10 \\ \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet \\ | & | & | & | & | & | & | & | & | & | \\ 2 & 4 & 1 & 5 & 6 & 7 & 8 & 11 & 9 & 3 \end{array} \right\}$$



# Reconstrucció d'un arbre a partir de la seqüència de Prüfer

$$T_{10} \quad \boxed{\begin{array}{l} S := ( \qquad \qquad \qquad 15, 12, 10) \\ V := \{ \qquad \qquad \qquad 10, \qquad 12, 13, 14, 15 \} \end{array}}$$

$$P := \{ \qquad \qquad \qquad 10, \qquad 12, \qquad \qquad 15 \}$$

$$W = V \setminus P := \{ \qquad \qquad \qquad 13, 14, \qquad \}$$

$$\text{min } W :=$$

$$A(T) := \left\{ \begin{array}{cccccccccc} 15 & 1 & 10 & 12 & 12 & 15 & 9 & 9 & 3 & 10 \\ \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet \\ | & | & | & | & | & | & | & | & | & | \\ 2 & 4 & 1 & 5 & 6 & 7 & 8 & 11 & 9 & 3 \end{array} \right\}$$

# Reconstrucció d'un arbre a partir de la seqüència de Prüfer

$$T_{10} \quad \boxed{\begin{array}{l} S := ( \qquad \qquad \qquad 15, 12, 10) \\ V := \{ \qquad \qquad \qquad 10, \qquad 12, 13, 14, 15 \} \end{array}}$$

$$P := \{ \qquad \qquad \qquad 10, \qquad 12, \qquad \qquad 15 \}$$

$$W = V \setminus P := \{ \qquad \qquad \qquad 13, 14, \qquad \}$$

$$\min W := 13$$

$$A(T) := \left\{ \begin{array}{cccccccccc} 15 & 1 & 10 & 12 & 12 & 15 & 9 & 9 & 3 & 10 \\ \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet \\ | & | & | & | & | & | & | & | & | & | \\ 2 & 4 & 1 & 5 & 6 & 7 & 8 & 11 & 9 & 3 \end{array} \right\}$$

# Reconstrucció d'un arbre a partir de la seqüència de Prüfer

$$T_{10} \quad \boxed{\begin{array}{l} S := ( \qquad \qquad \qquad 15, 12, 10) \\ V := \{ \qquad \qquad \qquad 10, \qquad 12, 13, 14, 15 \} \end{array}}$$

$$P := \{ \qquad \qquad \qquad 10, \qquad 12, \qquad \qquad 15 \}$$

$$W = V \setminus P := \{ \qquad \qquad \qquad 13, 14, \qquad \}$$

$$\min W := 13$$

$$A(T) := \left\{ \begin{array}{cccccccccccc} 15 & 1 & 10 & 12 & 12 & 15 & 9 & 9 & 3 & 10 & 15 \\ \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet \\ \mid & \mid & \mid & \mid & \mid & \mid & \mid & \mid & \mid & \mid & \mid \\ 2 & 4 & 1 & 5 & 6 & 7 & 8 & 11 & 9 & 3 & 13 \end{array} \right\}$$

# Reconstrucció d'un arbre a partir de la seqüència de Prüfer

$$T_{11} \quad \boxed{\begin{array}{l} S := ( \qquad \qquad \qquad 12, 10) \\ V := \{ \qquad \qquad \qquad 10, \qquad 12, \qquad 14, 15 \} \end{array}}$$

$$P := \{ \qquad \qquad \qquad 10, \qquad 12, \qquad \qquad \qquad \}$$

$$W = V \setminus P := \{ \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad 14, 15 \}$$

$$\text{min } W :=$$

$$A(T) := \left\{ \begin{array}{cccccccccccc} 15 & 1 & 10 & 12 & 12 & 15 & 9 & 9 & 3 & 10 & 15 \\ \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet \\ | & | & | & | & | & | & | & | & | & | & | \\ 2 & 4 & 1 & 5 & 6 & 7 & 8 & 11 & 9 & 3 & 13 \end{array} \right\}$$

# Reconstrucció d'un arbre a partir de la seqüència de Prüfer

$$\begin{array}{l}
 T_{11} \quad \boxed{
 \begin{array}{l}
 S := ( \qquad \qquad \qquad 12, 10) \\
 V := \{ \qquad \qquad \qquad 10, \qquad 12, \qquad 14, 15 \} \\
 P := \{ \qquad \qquad \qquad 10, \qquad 12, \qquad \qquad \qquad \} \\
 W = V \setminus P := \{ \qquad \qquad \qquad \qquad \qquad \qquad 14, 15 \}
 \end{array}
 }
 \end{array}$$

$$\min W := 14$$

$$A(T) := \left\{ \begin{array}{c} 15 \\ \bullet \\ \mid \\ 2 \end{array}, \begin{array}{c} 1 \\ \bullet \\ \mid \\ 4 \end{array}, \begin{array}{c} 10 \\ \bullet \\ \mid \\ 1 \end{array}, \begin{array}{c} 12 \\ \bullet \\ \mid \\ 5 \end{array}, \begin{array}{c} 12 \\ \bullet \\ \mid \\ 6 \end{array}, \begin{array}{c} 15 \\ \bullet \\ \mid \\ 7 \end{array}, \begin{array}{c} 9 \\ \bullet \\ \mid \\ 8 \end{array}, \begin{array}{c} 9 \\ \bullet \\ \mid \\ 11 \end{array}, \begin{array}{c} 3 \\ \bullet \\ \mid \\ 9 \end{array}, \begin{array}{c} 10 \\ \bullet \\ \mid \\ 3 \end{array}, \begin{array}{c} 15 \\ \bullet \\ \mid \\ 13 \end{array} \right\}$$

# Reconstrucció d'un arbre a partir de la seqüència de Prüfer

$$\begin{array}{l}
 T_{11} \quad \boxed{
 \begin{array}{l}
 S := ( \qquad \qquad \qquad 12, 10) \\
 V := \{ \qquad \qquad \qquad 10, \qquad 12, \qquad 14, 15 \} \\
 P := \{ \qquad \qquad \qquad 10, \qquad 12, \qquad \qquad \qquad \} \\
 W = V \setminus P := \{ \qquad \qquad \qquad \qquad \qquad \qquad 14, 15 \}
 \end{array}
 }
 \end{array}$$

$$\min W := 14$$

$$A(T) := \left\{ \begin{array}{c} 15 \\ \bullet \\ \mid \\ 2 \end{array}, \begin{array}{c} 1 \\ \bullet \\ \mid \\ 4 \end{array}, \begin{array}{c} 10 \\ \bullet \\ \mid \\ 1 \end{array}, \begin{array}{c} 12 \\ \bullet \\ \mid \\ 5 \end{array}, \begin{array}{c} 12 \\ \bullet \\ \mid \\ 6 \end{array}, \begin{array}{c} 15 \\ \bullet \\ \mid \\ 7 \end{array}, \begin{array}{c} 9 \\ \bullet \\ \mid \\ 8 \end{array}, \begin{array}{c} 9 \\ \bullet \\ \mid \\ 11 \end{array}, \begin{array}{c} 3 \\ \bullet \\ \mid \\ 9 \end{array}, \begin{array}{c} 10 \\ \bullet \\ \mid \\ 3 \end{array}, \begin{array}{c} 15 \\ \bullet \\ \mid \\ 13 \end{array}, \begin{array}{c} 12 \\ \bullet \\ \mid \\ 14 \end{array} \right\}$$

# Reconstrucció d'un arbre a partir de la seqüència de Prüfer

$$T_{12} \quad \boxed{\begin{array}{l} S := ( \qquad \qquad \qquad 10) \\ V := \{ \qquad \qquad \qquad 10, \qquad 12, \qquad 15 \} \end{array}}$$

$$P := \{ \qquad \qquad \qquad 10, \qquad \qquad \qquad \}$$

$$W = V \setminus P := \{ \qquad \qquad \qquad 12, \qquad \qquad \qquad 15 \}$$

$$\text{min } W :=$$

$$A(T) := \left\{ \begin{array}{cccccccccccc} 15 & 1 & 10 & 12 & 12 & 15 & 9 & 9 & 3 & 10 & 15 & 12 \\ \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet \\ \mid & \mid & \mid & \mid & \mid & \mid & \mid & \mid & \mid & \mid & \mid & \mid \\ 2 & 4 & 1 & 5 & 6 & 7 & 8 & 11 & 9 & 3 & 13 & 14 \end{array} \right\}$$

# Reconstrucció d'un arbre a partir de la seqüència de Prüfer

$$T_{12} \quad \boxed{\begin{array}{l} S := ( \qquad \qquad \qquad 10) \\ V := \{ \qquad \qquad \qquad 10, \qquad 12, \qquad 15 \} \end{array}}$$

$$P := \{ \qquad \qquad \qquad 10, \qquad \qquad \qquad \}$$

$$W = V \setminus P := \{ \qquad \qquad \qquad 12, \qquad \qquad \qquad 15 \}$$

$$\min W := 12$$

$$A(T) := \left\{ \begin{array}{c} 15 \\ \bullet \\ \mid \\ 2 \end{array}, \begin{array}{c} 1 \\ \bullet \\ \mid \\ 4 \end{array}, \begin{array}{c} 10 \\ \bullet \\ \mid \\ 1 \end{array}, \begin{array}{c} 12 \\ \bullet \\ \mid \\ 5 \end{array}, \begin{array}{c} 12 \\ \bullet \\ \mid \\ 6 \end{array}, \begin{array}{c} 15 \\ \bullet \\ \mid \\ 7 \end{array}, \begin{array}{c} 9 \\ \bullet \\ \mid \\ 8 \end{array}, \begin{array}{c} 9 \\ \bullet \\ \mid \\ 11 \end{array}, \begin{array}{c} 3 \\ \bullet \\ \mid \\ 9 \end{array}, \begin{array}{c} 10 \\ \bullet \\ \mid \\ 3 \end{array}, \begin{array}{c} 15 \\ \bullet \\ \mid \\ 13 \end{array}, \begin{array}{c} 12 \\ \bullet \\ \mid \\ 14 \end{array} \right\}$$



# Reconstrucció d'un arbre a partir de la seqüència de Prüfer

$$T_{12} \quad \boxed{\begin{array}{l} S := ( \qquad \qquad \qquad 10) \\ V := \{ \qquad \qquad \qquad 10, \qquad 12, \qquad 15 \} \end{array}}$$

$$P := \{ \qquad \qquad \qquad 10, \qquad \qquad \qquad \}$$

$$W = V \setminus P := \{ \qquad \qquad \qquad 12, \qquad \qquad \qquad 15 \}$$

$$\min W := 12$$

$$A(T) := \left\{ \begin{array}{c} 15 \\ \bullet \\ \vdots \\ 2 \end{array}, \begin{array}{c} 1 \\ \bullet \\ \vdots \\ 4 \end{array}, \begin{array}{c} 10 \\ \bullet \\ \vdots \\ 1 \end{array}, \begin{array}{c} 12 \\ \bullet \\ \vdots \\ 5 \end{array}, \begin{array}{c} 12 \\ \bullet \\ \vdots \\ 6 \end{array}, \begin{array}{c} 15 \\ \bullet \\ \vdots \\ 7 \end{array}, \begin{array}{c} 9 \\ \bullet \\ \vdots \\ 8 \end{array}, \begin{array}{c} 9 \\ \bullet \\ \vdots \\ 11 \end{array}, \begin{array}{c} 3 \\ \bullet \\ \vdots \\ 9 \end{array}, \begin{array}{c} 10 \\ \bullet \\ \vdots \\ 3 \end{array}, \begin{array}{c} 15 \\ \bullet \\ \vdots \\ 13 \end{array}, \begin{array}{c} 12 \\ \bullet \\ \vdots \\ 14 \end{array}, \begin{array}{c} 10 \\ \bullet \\ \vdots \\ 12 \end{array} \right\}$$

# Reconstrucció d'un arbre a partir de la seqüència de Prüfer

$$T_{13} \quad \boxed{\begin{array}{l} S := ( \phantom{1,2,3,4,5,6,7,8,9,10,11,12} ) \\ V := \{ \phantom{1,2,3,4,5,6,7,8,9,10,11,12} 10, \phantom{1,2,3,4,5,6,7,8,9,10,11,12} 15 \} \end{array}}$$

$$P := \{ \phantom{1,2,3,4,5,6,7,8,9,10,11,12} \}$$

$$W = V \setminus P := \{ \phantom{1,2,3,4,5,6,7,8,9,10,11,12} 10, \phantom{1,2,3,4,5,6,7,8,9,10,11,12} 15 \}$$

$$\text{min } W :=$$

$$A(T) := \left\{ \begin{array}{c} 15 \quad 1 \quad 10 \quad 12 \quad 12 \quad 15 \quad 9 \quad 9 \quad 3 \quad 10 \quad 15 \quad 12 \quad 10 \\ \bullet \quad \bullet \quad \bullet \quad \bullet \quad \bullet \quad \bullet \quad \bullet \quad \bullet \quad \bullet \quad \bullet \quad \bullet \quad \bullet \quad \bullet \\ \mid \quad \mid \quad \mid \quad \mid \quad \mid \quad \mid \quad \mid \quad \mid \quad \mid \quad \mid \quad \mid \quad \mid \\ 2 \quad 4 \quad 1 \quad 5 \quad 6 \quad 7 \quad 8 \quad 11 \quad 9 \quad 3 \quad 13 \quad 14 \quad 12 \end{array} \right\}$$

# Reconstrucció d'un arbre a partir de la seqüència de Prüfer

$$T_{13} \quad \boxed{\begin{array}{l} S := ( \phantom{1,2,3,4,5,6,7,8,9,10,11,12,13} ) \\ V := \{ \phantom{1,2,3,4,5,6,7,8,9,10,11,12,13} 10, \phantom{1,2,3,4,5,6,7,8,9,10,11,12,13} 15 \} \end{array}}$$

$$P := \{ \phantom{1,2,3,4,5,6,7,8,9,10,11,12,13} \}$$

$$W = V \setminus P := \{ \phantom{1,2,3,4,5,6,7,8,9,10,11,12,13} 10, \phantom{1,2,3,4,5,6,7,8,9,10,11,12,13} 15 \}$$

$$\min W := 10$$

$$A(T) := \left\{ \begin{array}{c} 15 \\ \bullet \\ \vdots \\ 2 \end{array}, \begin{array}{c} 1 \\ \bullet \\ \vdots \\ 4 \end{array}, \begin{array}{c} 10 \\ \bullet \\ \vdots \\ 1 \end{array}, \begin{array}{c} 12 \\ \bullet \\ \vdots \\ 5 \end{array}, \begin{array}{c} 12 \\ \bullet \\ \vdots \\ 6 \end{array}, \begin{array}{c} 15 \\ \bullet \\ \vdots \\ 7 \end{array}, \begin{array}{c} 9 \\ \bullet \\ \vdots \\ 8 \end{array}, \begin{array}{c} 9 \\ \bullet \\ \vdots \\ 11 \end{array}, \begin{array}{c} 3 \\ \bullet \\ \vdots \\ 9 \end{array}, \begin{array}{c} 10 \\ \bullet \\ \vdots \\ 3 \end{array}, \begin{array}{c} 15 \\ \bullet \\ \vdots \\ 13 \end{array}, \begin{array}{c} 12 \\ \bullet \\ \vdots \\ 14 \end{array}, \begin{array}{c} 10 \\ \bullet \\ \vdots \\ 12 \end{array} \right\}$$

# Reconstrucció d'un arbre a partir de la seqüència de Prüfer

$$T_{13} \quad \boxed{\begin{array}{l} S := ( \phantom{1,2,3,4,5,6,7,8,9,10,11,12,13} ) \\ V := \{ \phantom{1,2,3,4,5,6,7,8,9,10,11,12,13} 10, \phantom{1,2,3,4,5,6,7,8,9,10,11,12,13} 15 \} \end{array}}$$

$$P := \{ \phantom{1,2,3,4,5,6,7,8,9,10,11,12,13} \}$$

$$W = V \setminus P := \{ \phantom{1,2,3,4,5,6,7,8,9,10,11,12,13} 10, \phantom{1,2,3,4,5,6,7,8,9,10,11,12,13} 15 \}$$

$$\min W := 10$$

$$A(T) := \left\{ \begin{array}{c} 15 \\ \bullet \\ \vdots \\ 2 \end{array}, \begin{array}{c} 1 \\ \bullet \\ \vdots \\ 4 \end{array}, \begin{array}{c} 10 \\ \bullet \\ \vdots \\ 1 \end{array}, \begin{array}{c} 12 \\ \bullet \\ \vdots \\ 5 \end{array}, \begin{array}{c} 12 \\ \bullet \\ \vdots \\ 6 \end{array}, \begin{array}{c} 15 \\ \bullet \\ \vdots \\ 7 \end{array}, \begin{array}{c} 9 \\ \bullet \\ \vdots \\ 8 \end{array}, \begin{array}{c} 9 \\ \bullet \\ \vdots \\ 11 \end{array}, \begin{array}{c} 3 \\ \bullet \\ \vdots \\ 9 \end{array}, \begin{array}{c} 10 \\ \bullet \\ \vdots \\ 3 \end{array}, \begin{array}{c} 15 \\ \bullet \\ \vdots \\ 13 \end{array}, \begin{array}{c} 12 \\ \bullet \\ \vdots \\ 14 \end{array}, \begin{array}{c} 10 \\ \bullet \\ \vdots \\ 12 \end{array}, \begin{array}{c} 15 \\ \bullet \\ \vdots \\ 10 \end{array} \right\}$$

# Reconstrucció d'un arbre a partir de la seqüència de Prüfer

$$S := ( \quad )$$

$$V := \{ \quad \}$$

$$P := \{ \quad \}$$

$$W = V \setminus P := \{ \quad \}$$

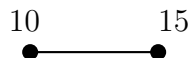
$$\min W :=$$

$$A(T) := \left\{ \begin{array}{c} 15 \\ \bullet \\ | \\ 2 \end{array}, \begin{array}{c} 1 \\ \bullet \\ | \\ 4 \end{array}, \begin{array}{c} 10 \\ \bullet \\ | \\ 1 \end{array}, \begin{array}{c} 12 \\ \bullet \\ | \\ 5 \end{array}, \begin{array}{c} 12 \\ \bullet \\ | \\ 6 \end{array}, \begin{array}{c} 15 \\ \bullet \\ | \\ 7 \end{array}, \begin{array}{c} 9 \\ \bullet \\ | \\ 8 \end{array}, \begin{array}{c} 9 \\ \bullet \\ | \\ 11 \end{array}, \begin{array}{c} 3 \\ \bullet \\ | \\ 9 \end{array}, \begin{array}{c} 10 \\ \bullet \\ | \\ 3 \end{array}, \begin{array}{c} 15 \\ \bullet \\ | \\ 13 \end{array}, \begin{array}{c} 12 \\ \bullet \\ | \\ 14 \end{array}, \begin{array}{c} 10 \\ \bullet \\ | \\ 12 \end{array}, \begin{array}{c} 15 \\ \bullet \\ | \\ 10 \end{array} \right\}$$

# Reconstrucció d'un arbre a partir de la seqüència de Prüfer

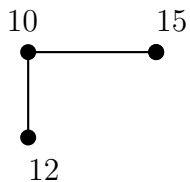
$$A(T) := \left\{ \begin{array}{cccccccccccccccc} 15 & 1 & 10 & 12 & 12 & 15 & 9 & 9 & 3 & 10 & 15 & 12 & 10 & 15 \\ \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet \\ | & | & | & | & | & | & | & | & | & | & | & | & | & | \\ \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet \\ 2 & 4 & 1 & 5 & 6 & 7 & 8 & 11 & 9 & 3 & 13 & 14 & 12 & 10 \end{array} \right\}$$

# Reconstrucció d'un arbre a partir de la seqüència de Prüfer



$$A(T) := \left\{ \begin{array}{cccccccccccccccc} 15 & 1 & 10 & 12 & 12 & 15 & 9 & 9 & 3 & 10 & 15 & 12 & 10 & 15 \\ \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet \\ \mid & \mid & \mid & \mid & \mid & \mid & \mid & \mid & \mid & \mid & \mid & \mid & \mid & \mid \\ \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet \\ 2 & 4 & 1 & 5 & 6 & 7 & 8 & 11 & 9 & 3 & 13 & 14 & 12 & 10 \end{array} \right\}$$

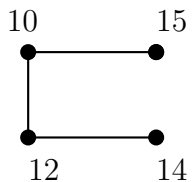
# Reconstrucció d'un arbre a partir de la seqüència de Prüfer



$$A(T) := \left\{ \begin{array}{cccccccccccccc} \begin{array}{c} 15 \\ \bullet \\ \hline \bullet \\ 2 \end{array} & , & \begin{array}{c} 1 \\ \bullet \\ \hline \bullet \\ 4 \end{array} & , & \begin{array}{c} 10 \\ \bullet \\ \hline \bullet \\ 1 \end{array} & , & \begin{array}{c} 12 \\ \bullet \\ \hline \bullet \\ 5 \end{array} & , & \begin{array}{c} 12 \\ \bullet \\ \hline \bullet \\ 6 \end{array} & , & \begin{array}{c} 15 \\ \bullet \\ \hline \bullet \\ 7 \end{array} & , & \begin{array}{c} 9 \\ \bullet \\ \hline \bullet \\ 8 \end{array} & , & \begin{array}{c} 9 \\ \bullet \\ \hline \bullet \\ 11 \end{array} & , & \begin{array}{c} 3 \\ \bullet \\ \hline \bullet \\ 9 \end{array} & , & \begin{array}{c} 10 \\ \bullet \\ \hline \bullet \\ 3 \end{array} & , & \begin{array}{c} 15 \\ \bullet \\ \hline \bullet \\ 13 \end{array} & , & \begin{array}{c} 12 \\ \bullet \\ \hline \bullet \\ 14 \end{array} & , & \begin{array}{c} 10 \\ \bullet \\ \hline \bullet \\ 12 \end{array} & , & \begin{array}{c} 15 \\ \bullet \\ \hline \bullet \\ 10 \end{array} \end{array} \right\}$$

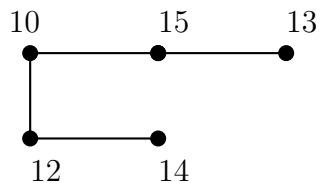


# Reconstrucció d'un arbre a partir de la seqüència de Prüfer



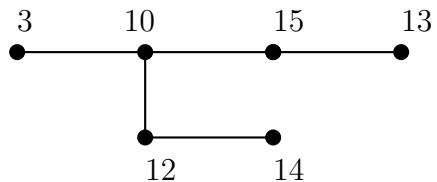
$$A(T) := \left\{ \begin{array}{cccccccccccccccc} 15 & 1 & 10 & 12 & 12 & 15 & 9 & 9 & 3 & 10 & 15 & 12 & 10 & 15 \\ \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet \\ \mid & \mid & \mid & \mid & \mid & \mid & \mid & \mid & \mid & \mid & \mid & \mid & \mid & \mid \\ \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet \\ 2 & 4 & 1 & 5 & 6 & 7 & 8 & 11 & 9 & 3 & 13 & 14 & 12 & 10 \end{array} \right\}$$

# Reconstrucció d'un arbre a partir de la seqüència de Prüfer



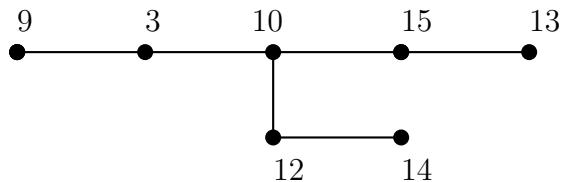
$$A(T) := \left\{ \begin{array}{cccccccccccccccc} 15 & 1 & 10 & 12 & 12 & 15 & 9 & 9 & 3 & 10 & 15 & 12 & 10 & 15 \\ \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet \\ \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet \\ 2 & 4 & 1 & 5 & 6 & 7 & 8 & 11 & 9 & 3 & 13 & 14 & 12 & 10 \end{array} \right\}$$

# Reconstrucció d'un arbre a partir de la seqüència de Prüfer



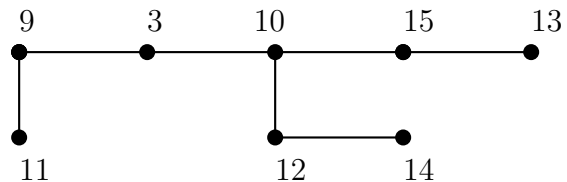
$$A(T) := \left\{ \begin{array}{cccccccccccccc} 15 & 1 & 10 & 12 & 12 & 15 & 9 & 9 & 3 & 10 & 15 & 12 & 10 & 15 \\ \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet \\ \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet \\ 2 & 4 & 1 & 5 & 6 & 7 & 8 & 11 & 9 & 3 & 13 & 14 & 12 & 10 \end{array} \right\}$$

# Reconstrucció d'un arbre a partir de la seqüència de Prüfer



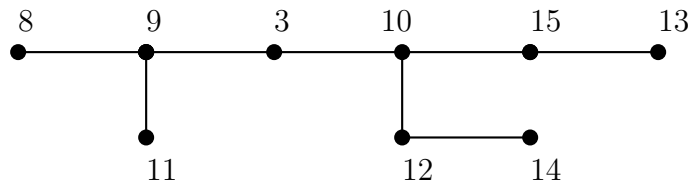
$$A(T) := \left\{ \begin{array}{c} 15 \\ \bullet \\ \bullet \\ 2 \end{array}, \begin{array}{c} 1 \\ \bullet \\ \bullet \\ 4 \end{array}, \begin{array}{c} 10 \\ \bullet \\ \bullet \\ 1 \end{array}, \begin{array}{c} 12 \\ \bullet \\ \bullet \\ 5 \end{array}, \begin{array}{c} 12 \\ \bullet \\ \bullet \\ 6 \end{array}, \begin{array}{c} 15 \\ \bullet \\ \bullet \\ 7 \end{array}, \begin{array}{c} 9 \\ \bullet \\ \bullet \\ 8 \end{array}, \begin{array}{c} 9 \\ \bullet \\ \bullet \\ 11 \end{array}, \begin{array}{c} 3 \\ \bullet \\ \bullet \\ 9 \end{array}, \begin{array}{c} 10 \\ \bullet \\ \bullet \\ 3 \end{array}, \begin{array}{c} 15 \\ \bullet \\ \bullet \\ 13 \end{array}, \begin{array}{c} 12 \\ \bullet \\ \bullet \\ 14 \end{array}, \begin{array}{c} 10 \\ \bullet \\ \bullet \\ 12 \end{array}, \begin{array}{c} 15 \\ \bullet \\ \bullet \\ 10 \end{array} \right\}$$

# Reconstrucció d'un arbre a partir de la seqüència de Prüfer



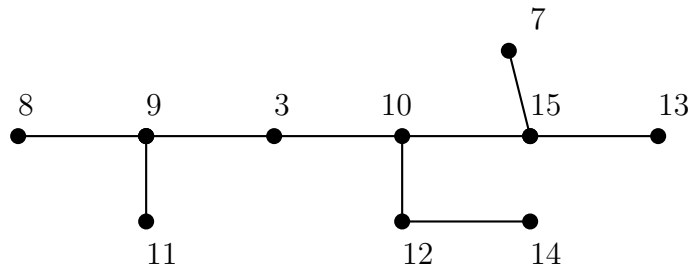
$$A(T) := \left\{ \begin{array}{cccccccccccccccc} 15 & 1 & 10 & 12 & 12 & 15 & 9 & 9 & 3 & 10 & 15 & 12 & 10 & 15 \\ \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet \\ \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet \\ 2 & 4 & 1 & 5 & 6 & 7 & 8 & 11 & 9 & 3 & 13 & 14 & 12 & 10 \end{array} \right\}$$

# Reconstrucció d'un arbre a partir de la seqüència de Prüfer



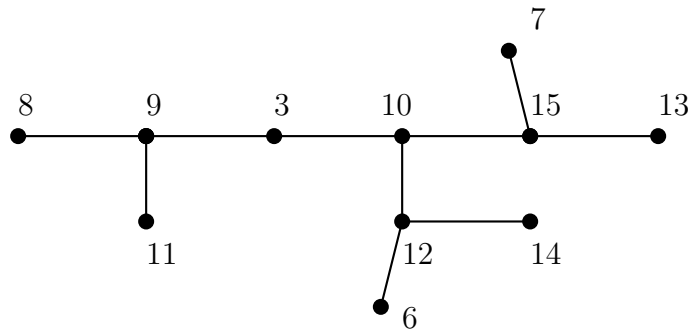
$$A(T) := \left\{ \begin{array}{cccccccccccccccc} 15 & 1 & 10 & 12 & 12 & 15 & 9 & 9 & 3 & 10 & 15 & 12 & 10 & 15 \\ \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet \\ \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet \\ 2 & 4 & 1 & 5 & 6 & 7 & 8 & 11 & 9 & 3 & 13 & 14 & 12 & 10 \end{array} \right\}$$

# Reconstrucció d'un arbre a partir de la seqüència de Prüfer



$$A(T) := \left\{ \begin{array}{cccccccccccccccc} 15 & 1 & 10 & 12 & 12 & 15 & 9 & 9 & 3 & 10 & 15 & 12 & 10 & 15 \\ \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet \\ \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet \\ 2 & 4 & 1 & 5 & 6 & 7 & 8 & 11 & 9 & 3 & 13 & 14 & 12 & 10 \end{array} \right\}$$

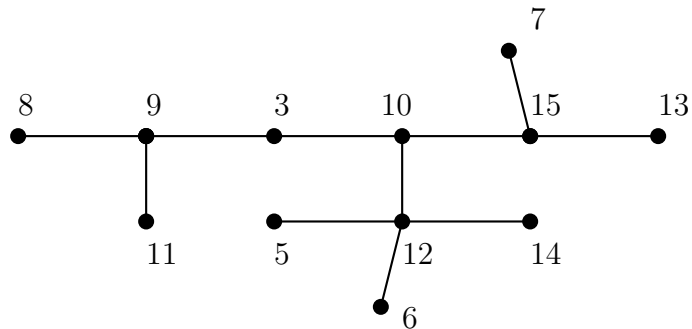
# Reconstrucció d'un arbre a partir de la seqüència de Prüfer



$$A(T) := \left\{ \begin{array}{cccccccccccccccc} 15 & 1 & 10 & 12 & 12 & 15 & 9 & 9 & 3 & 10 & 15 & 12 & 10 & 15 \\ \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet \\ \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet & \bullet \\ 2 & 4 & 1 & 5 & 6 & 7 & 8 & 11 & 9 & 3 & 13 & 14 & 12 & 10 \end{array} \right\}$$



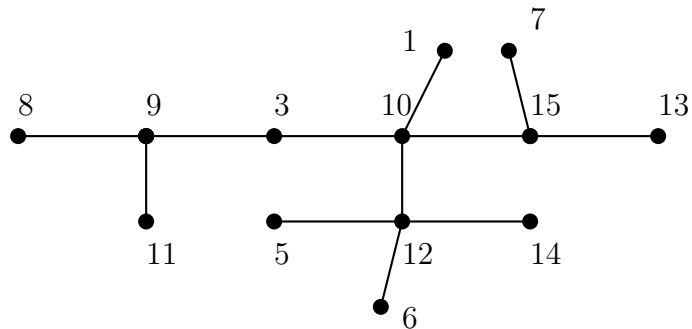
# Reconstrucció d'un arbre a partir de la seqüència de Prüfer



$$A(T) := \left\{ \begin{array}{c} 15 \\ \bullet \\ \bullet \end{array} , \begin{array}{c} 1 \\ \bullet \\ \bullet \end{array} , \begin{array}{c} 10 \\ \bullet \\ \bullet \end{array} , \begin{array}{c} 12 \\ \bullet \\ \bullet \end{array} , \begin{array}{c} 12 \\ \bullet \\ \bullet \end{array} , \begin{array}{c} 15 \\ \bullet \\ \bullet \end{array} , \begin{array}{c} 9 \\ \bullet \\ \bullet \end{array} , \begin{array}{c} 9 \\ \bullet \\ \bullet \end{array} , \begin{array}{c} 3 \\ \bullet \\ \bullet \end{array} , \begin{array}{c} 10 \\ \bullet \\ \bullet \end{array} , \begin{array}{c} 15 \\ \bullet \\ \bullet \end{array} , \begin{array}{c} 12 \\ \bullet \\ \bullet \end{array} , \begin{array}{c} 10 \\ \bullet \\ \bullet \end{array} , \begin{array}{c} 15 \\ \bullet \\ \bullet \end{array} \right\}$$

2    4    1    5    6    7    8    11    9    3    13    14    12    10

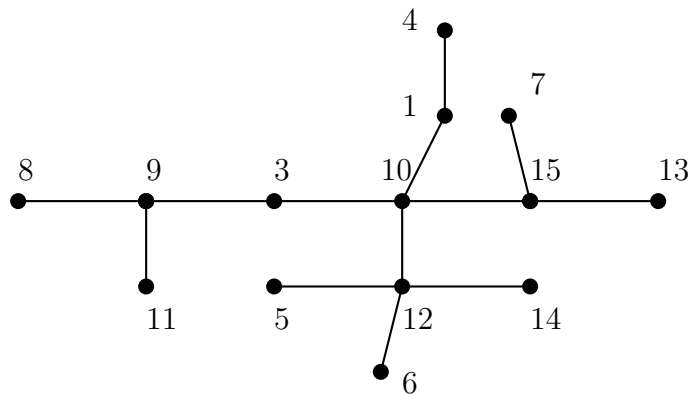
# Reconstrucció d'un arbre a partir de la seqüència de Prüfer



$$A(T) := \left\{ \begin{array}{c} 15 \\ \bullet \\ \bullet \end{array} , \begin{array}{c} 1 \\ \bullet \\ \bullet \end{array} , \begin{array}{c} 10 \\ \bullet \\ \bullet \end{array} , \begin{array}{c} 12 \\ \bullet \\ \bullet \end{array} , \begin{array}{c} 12 \\ \bullet \\ \bullet \end{array} , \begin{array}{c} 15 \\ \bullet \\ \bullet \end{array} , \begin{array}{c} 9 \\ \bullet \\ \bullet \end{array} , \begin{array}{c} 9 \\ \bullet \\ \bullet \end{array} , \begin{array}{c} 3 \\ \bullet \\ \bullet \end{array} , \begin{array}{c} 10 \\ \bullet \\ \bullet \end{array} , \begin{array}{c} 15 \\ \bullet \\ \bullet \end{array} , \begin{array}{c} 12 \\ \bullet \\ \bullet \end{array} , \begin{array}{c} 10 \\ \bullet \\ \bullet \end{array} , \begin{array}{c} 15 \\ \bullet \\ \bullet \end{array} \right\}$$

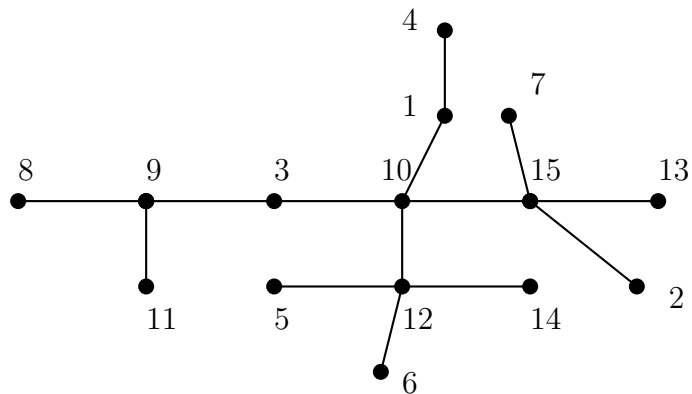
2    4    1    5    6    7    8    11    9    3    13    14    12    10

# Reconstrucció d'un arbre a partir de la seqüència de Prüfer



$$A(T) := \left\{ \begin{array}{c} 15 \\ \bullet \\ \bullet \end{array} , \begin{array}{c} 1 \\ \bullet \\ 4 \end{array} , \begin{array}{c} 10 \\ \bullet \\ 1 \end{array} , \begin{array}{c} 12 \\ \bullet \\ 5 \end{array} , \begin{array}{c} 12 \\ \bullet \\ 6 \end{array} , \begin{array}{c} 15 \\ \bullet \\ 7 \end{array} , \begin{array}{c} 9 \\ \bullet \\ 8 \end{array} , \begin{array}{c} 9 \\ \bullet \\ 11 \end{array} , \begin{array}{c} 3 \\ \bullet \\ 9 \end{array} , \begin{array}{c} 10 \\ \bullet \\ 3 \end{array} , \begin{array}{c} 15 \\ \bullet \\ 13 \end{array} , \begin{array}{c} 12 \\ \bullet \\ 14 \end{array} , \begin{array}{c} 10 \\ \bullet \\ 12 \end{array} , \begin{array}{c} 15 \\ \bullet \\ 10 \end{array} \right\}$$

# Reconstrucció d'un arbre a partir de la seqüència de Prüfer



$$A(T) := \left\{ \begin{array}{c} 15 \\ \vdots \\ 2 \end{array}, \begin{array}{c} 1 \\ \vdots \\ 4 \end{array}, \begin{array}{c} 10 \\ \vdots \\ 1 \end{array}, \begin{array}{c} 12 \\ \vdots \\ 5 \end{array}, \begin{array}{c} 12 \\ \vdots \\ 6 \end{array}, \begin{array}{c} 15 \\ \vdots \\ 7 \end{array}, \begin{array}{c} 9 \\ \vdots \\ 8 \end{array}, \begin{array}{c} 9 \\ \vdots \\ 11 \end{array}, \begin{array}{c} 3 \\ \vdots \\ 9 \end{array}, \begin{array}{c} 10 \\ \vdots \\ 3 \end{array}, \begin{array}{c} 15 \\ \vdots \\ 13 \end{array}, \begin{array}{c} 12 \\ \vdots \\ 14 \end{array}, \begin{array}{c} 10 \\ \vdots \\ 12 \end{array}, \begin{array}{c} 15 \\ \vdots \\ 10 \end{array} \right\}$$