

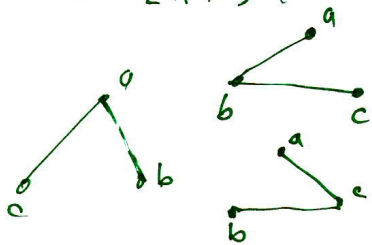
Cayley formula Naj bo S množica točk moči n .^①

Število dreves nad S je n^{n-2} .

$n=1$ $S = \{a\}$:  $= 1^{-1} = 1$

$n=2$ $S = \{a, b\}$  $= 2^{2-2} = 2^0 = 1$ ω

$n=3$ $S = \{a, b, c\}$



$3^{3-2} = 3$

$n=4$

$4^{4-2} = 16$

Prüferjeva koda

vhod: drevo T

izhod: koda $(a_1, a_2, \dots, a_{n-2})$ $a_i \in \{1, \dots, n\}$

$L = \{t : t \text{ je list v } T\}$

for $i = 1$ to $n-2$ do

$v := \max\{t \in L\}$ $L := L \setminus \{v\}$

a_i je sosed točke v

če je a_i list v T potem $L := L \cup \{a_i\}$

END

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VHOD = $a = (a_1, \dots, a_{n-2})$

IZHOD = T

$L := \{1, \dots, n\} \setminus \text{Set}(a)$

$T := \emptyset$

FOR $i = 1$ to $n-2$ DO

$v := \max\{t \in L\}, L := L \setminus \{v\};$

$T := T \cup \{a_i v\}$

Če $a_i \notin (a_k)_{k=i+1}^{n-2}$ potom $L := L \cup \{a_i\}$

END;

$T := T \cup \{uv\} \quad u, v \in L$