

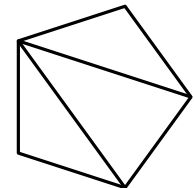
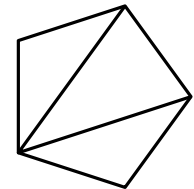
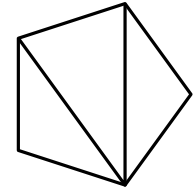
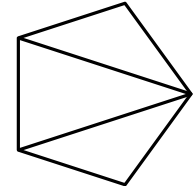
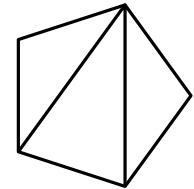
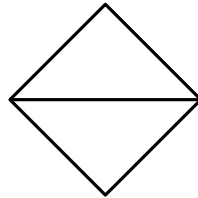
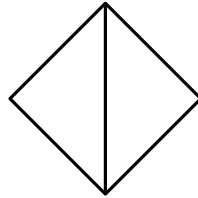
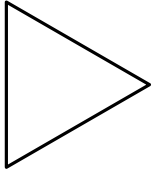
# Catalanova števila

Matjaž Konvalinka

21. september 2013

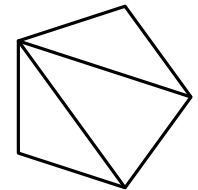
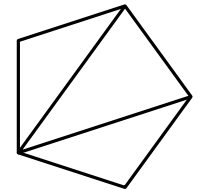
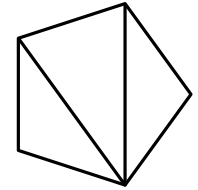
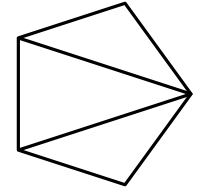
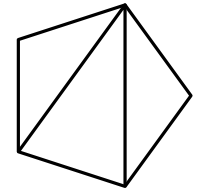
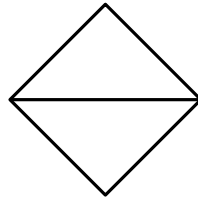
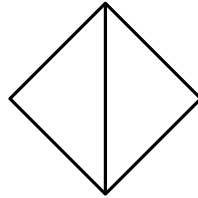
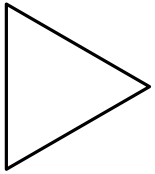
# Koliko je...

... triangulacij mnogokotnika?



# Koliko je...

... triangulacij mnogokotnika?



1, 2, 5, 14, 42, 138, ...

# Koliko je...

... pravih postavitev oklepajev?

$t_0t_1$

$(t_0t_1)t_2$

$((t_0t_1)t_2)t_3$

$t_0(t_1t_2)$

$(t_0(t_1t_2))t_3$

$(t_0t_1)(t_2t_3)$

$t_0((t_1t_2)t_3)$

$t_0(t_1(t_2t_3))$

# Koliko je...

... pravih postavitev oklepajev?

$t_0 t_1$

$(t_0 t_1) t_2$

$((t_0 t_1) t_2) t_3$

$t_0 (t_1 t_2)$

$(t_0 (t_1 t_2)) t_3$

$(t_0 t_1) (t_2 t_3)$

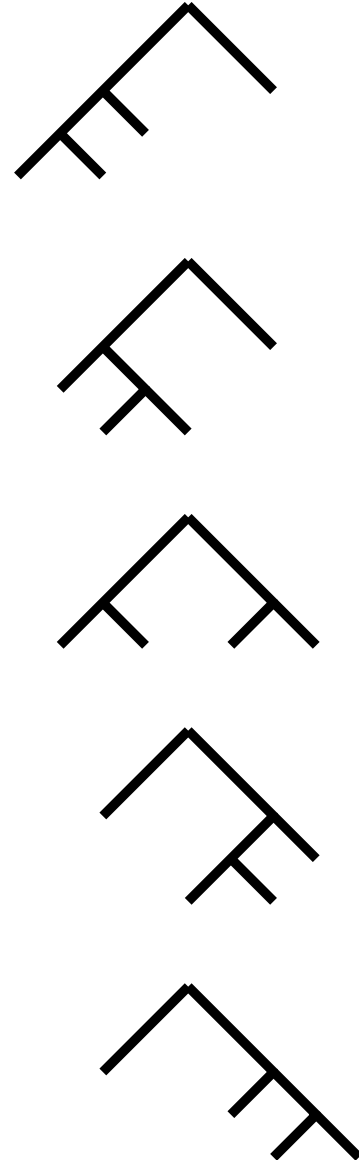
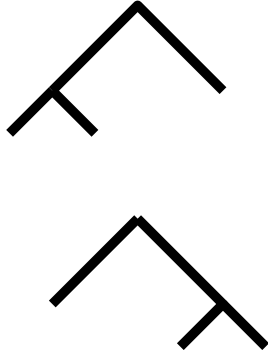
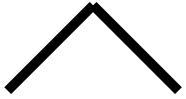
$t_0 ((t_1 t_2) t_3)$

$t_0 (t_1 (t_2 t_3))$

1, 2, 5, 14, 42, 138, ...

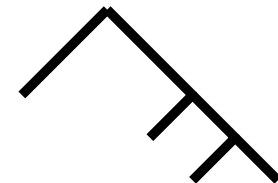
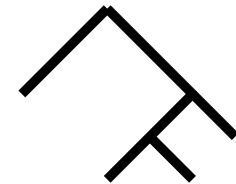
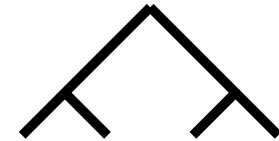
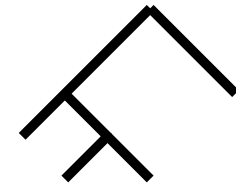
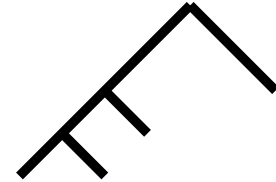
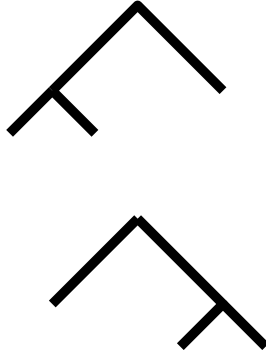
# Koliko je...

... polnih binarnih dreves?



# Koliko je...

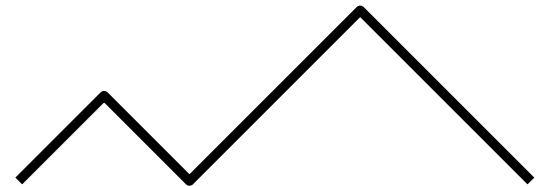
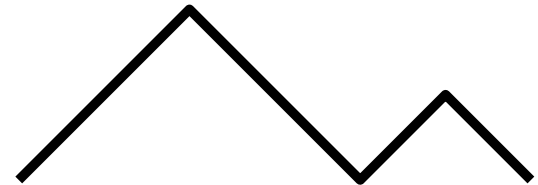
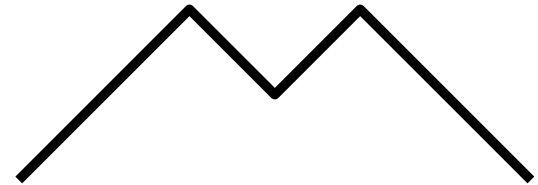
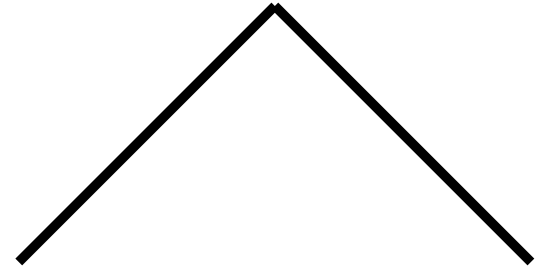
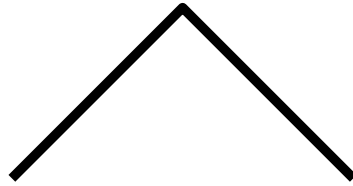
... polnih binarnih dreves?



1, 2, 5, 14, 42, 138, ...

# Koliko je...

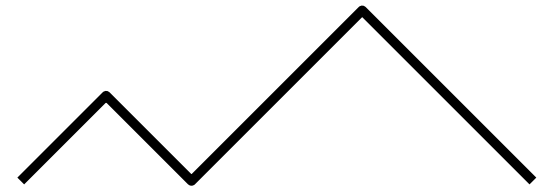
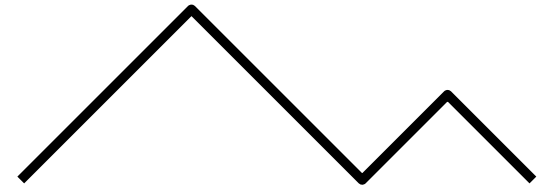
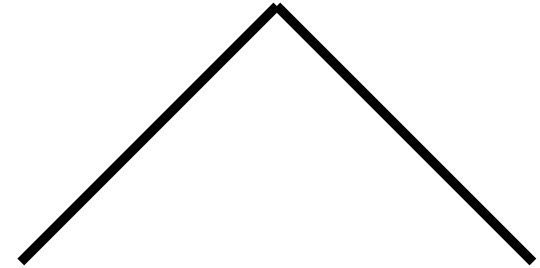
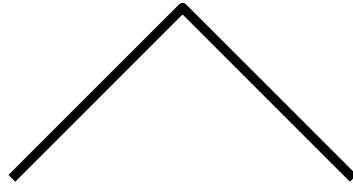
... Dyckovih poti?





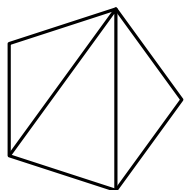
# Koliko je...

... Dyckovih poti?

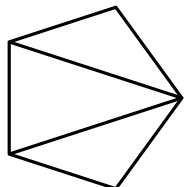
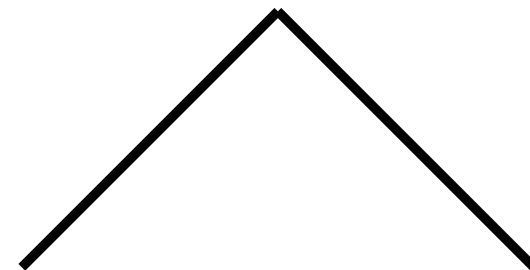
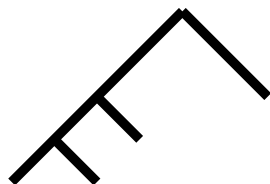


1, 2, 5, 14, 42, 138, ...

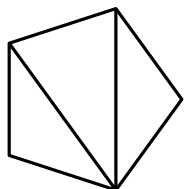
# Vedno isti odgovor?



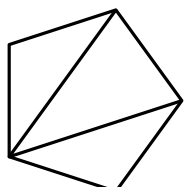
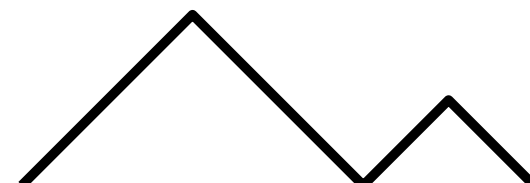
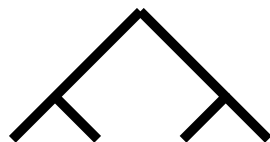
$$((t_0 t_1) t_2) t_3$$



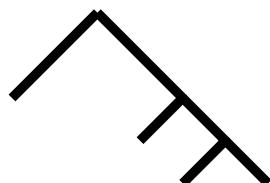
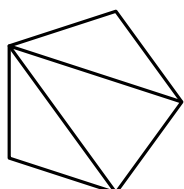
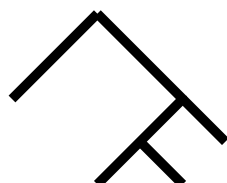
$$(t_0 (t_1 t_2)) t_3$$



$$(t_0 t_1) (t_2 t_3)$$

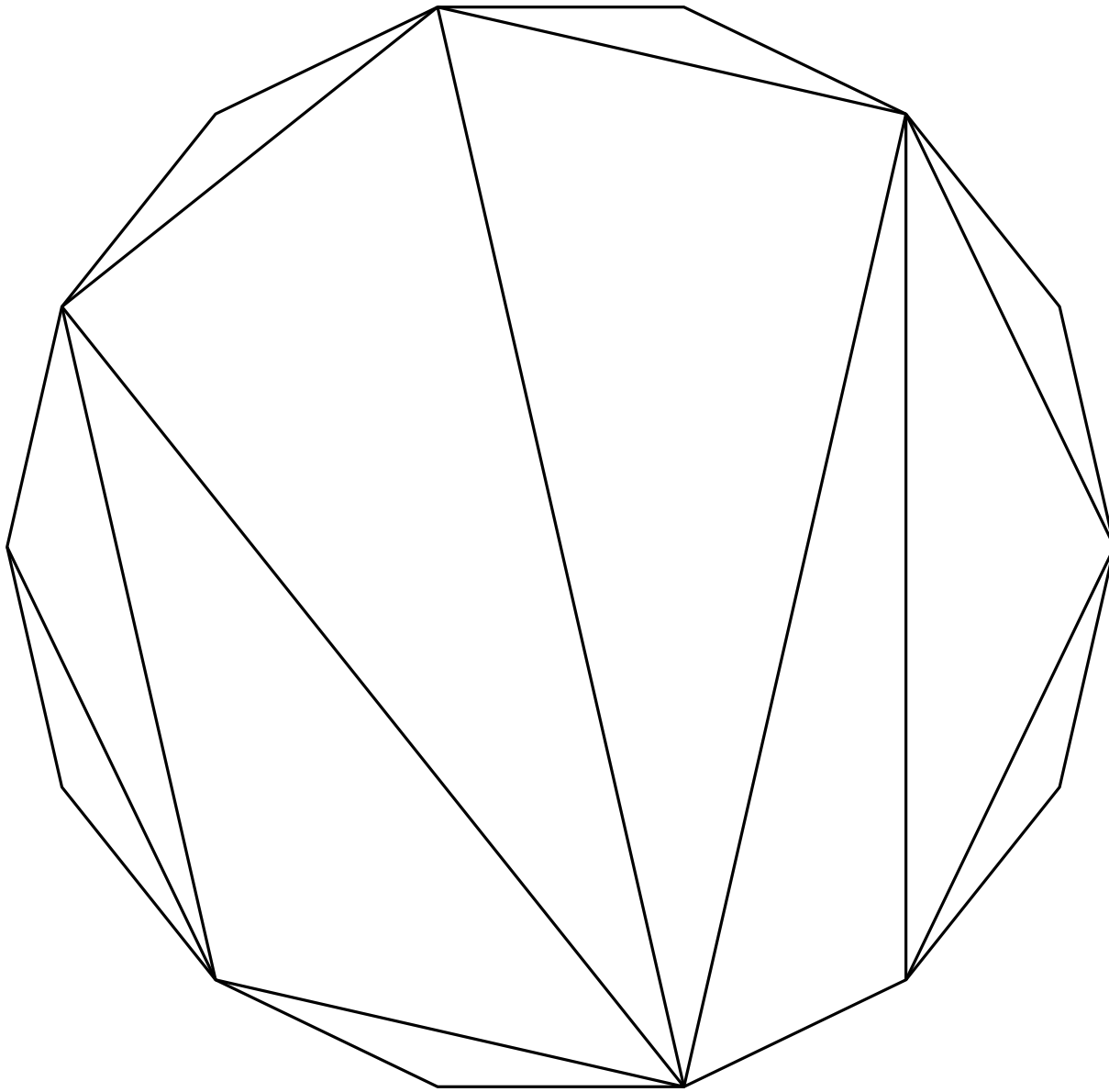


$$t_0 ((t_1 t_2) t_3)$$

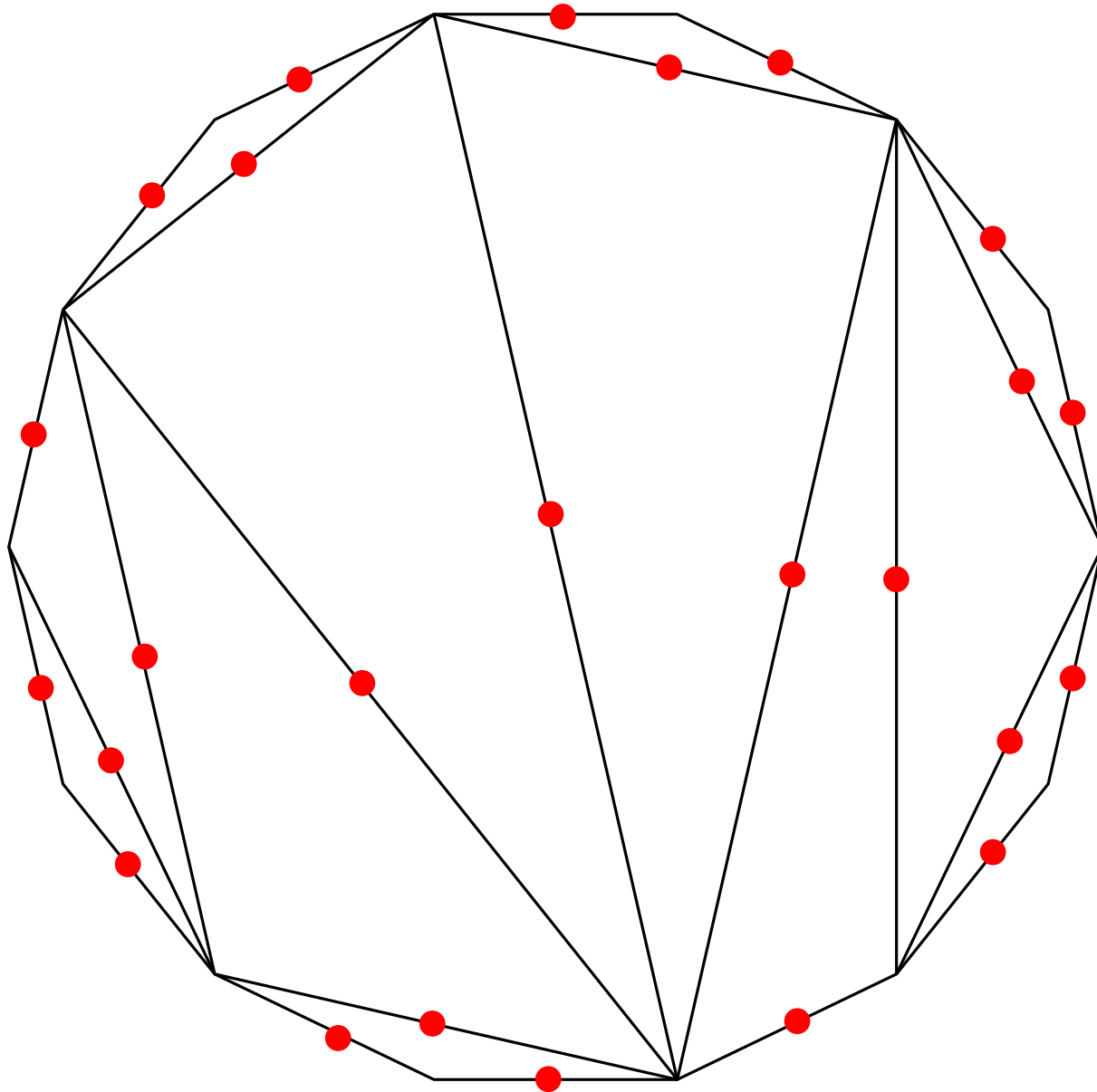


1, 2, 5, 14, 42, 138, ...

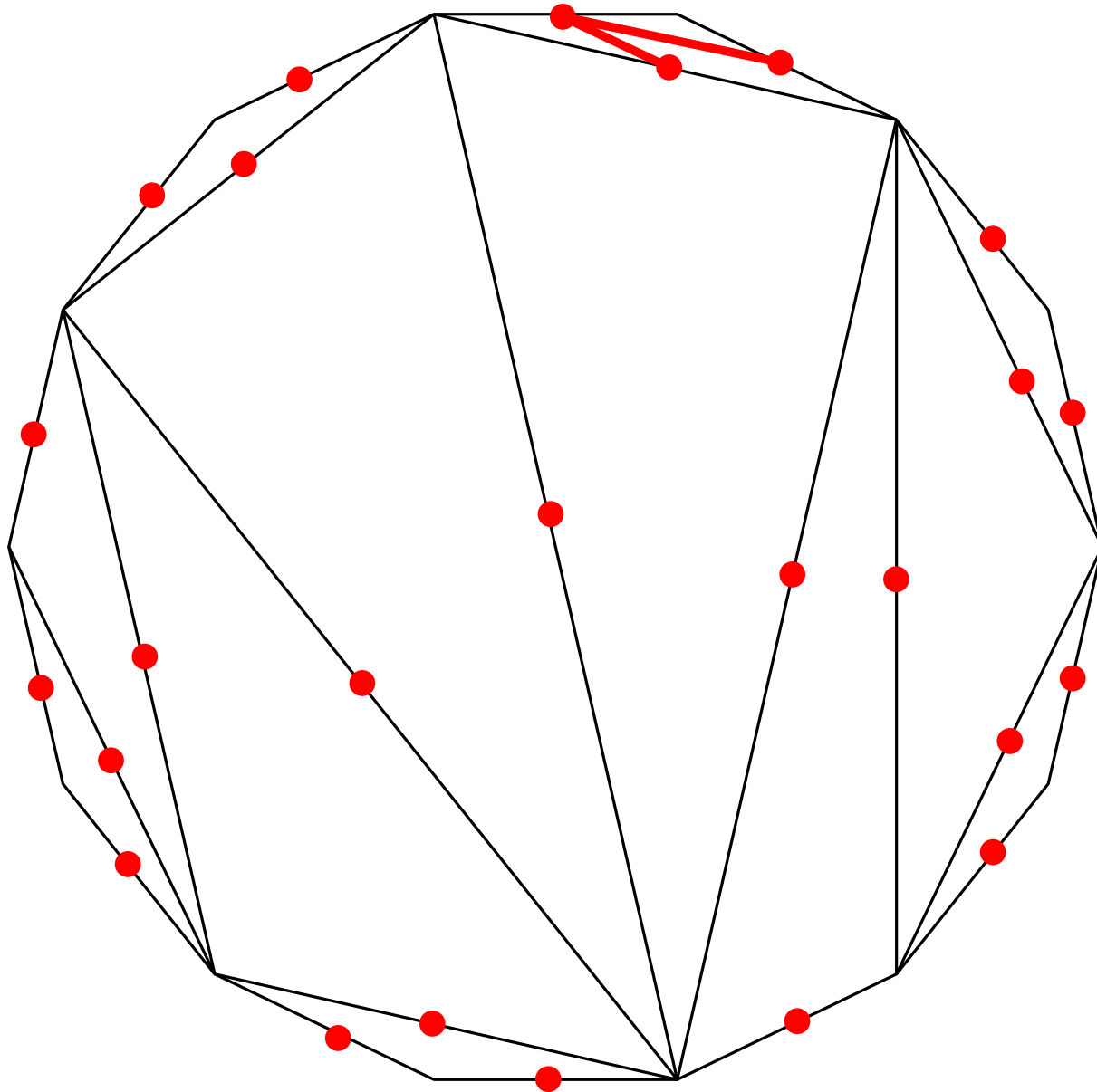
# Triangulacije in polna binarna drevesa



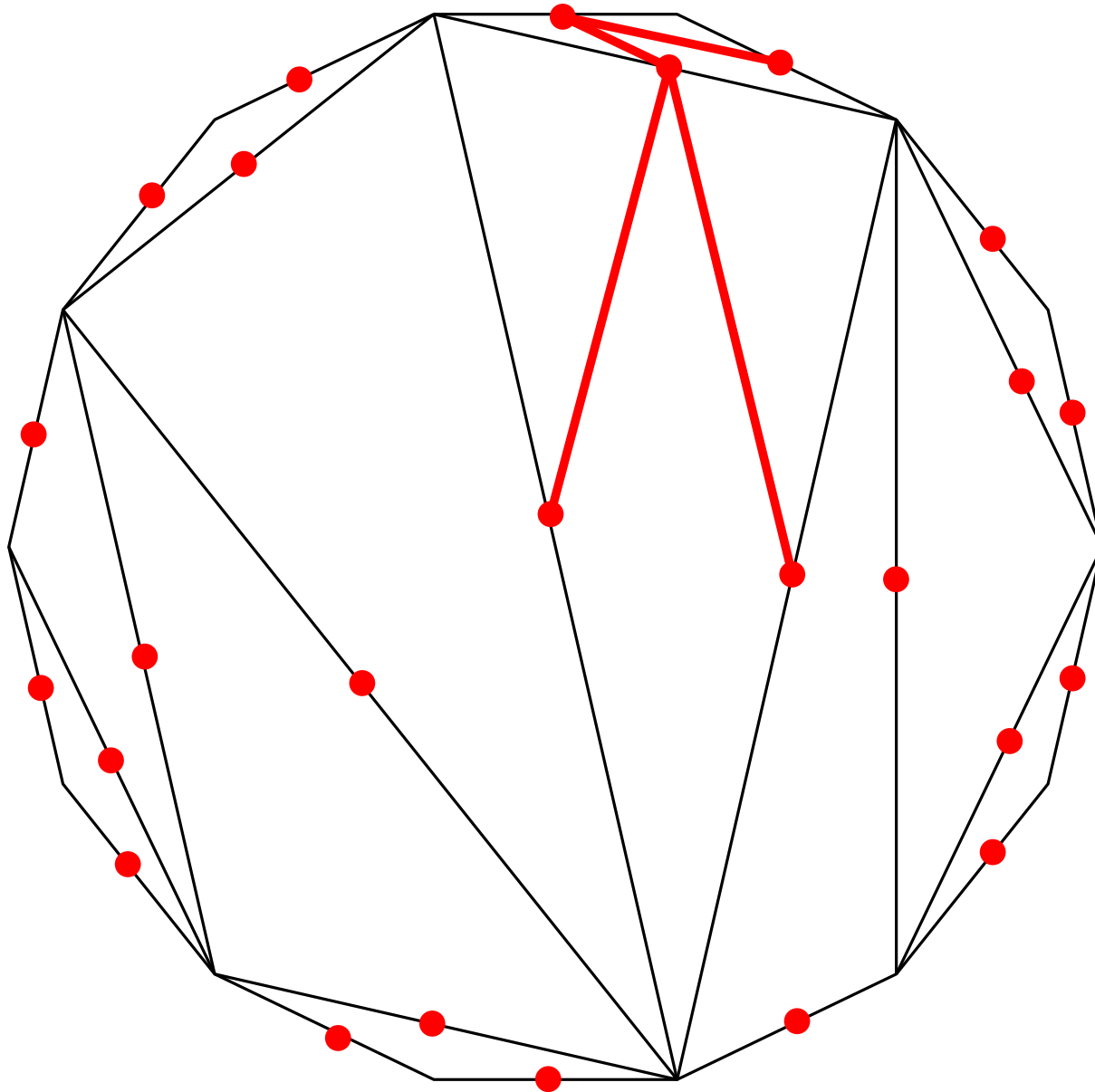
# Triangulacije in polna binarna drevesa



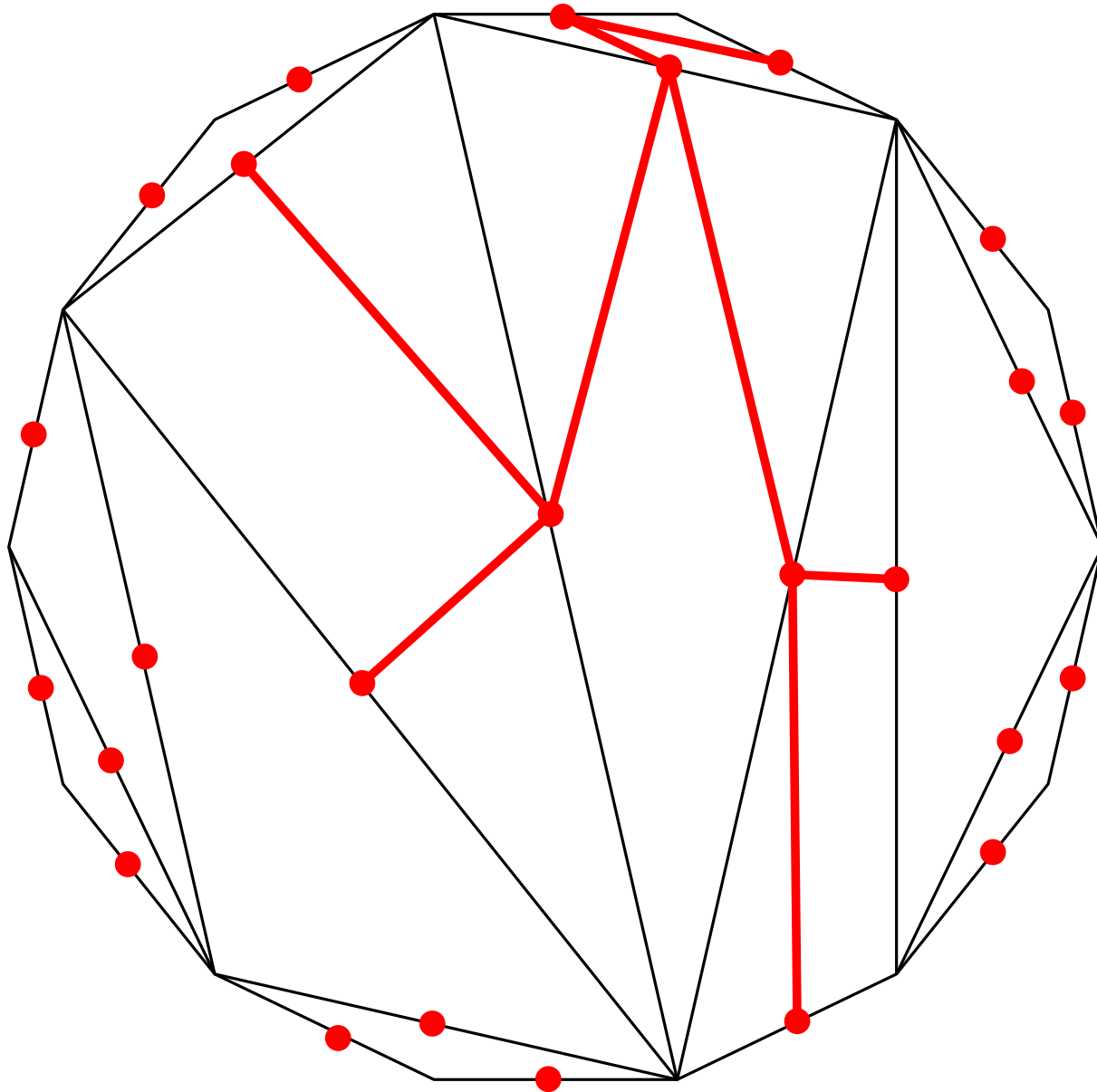
# Triangulacije in polna binarna drevesa



# Triangulacije in polna binarna drevesa



# Triangulacije in polna binarna drevesa



# Triangulacije in polna binarna drevesa

