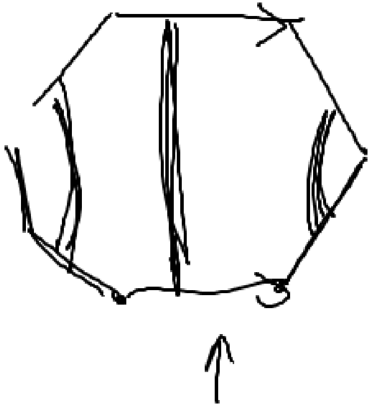
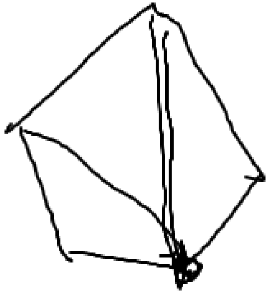


$$\overset{2n}{T_n(N)} = \sum_{\text{по всем скл.}} N^{\#\text{вершин}}$$

$$= \sum_{g=0}^{\infty} \varepsilon_g(n)\, N^{n+1-2g}$$

$g=0$

N-цветов



$$T(N,s)=1+2Ns+2s\sum_{n=1}^{\infty}\frac{T_n(N)}{(2n-1)!!}s^n=$$

$$=\left(\frac{1+s}{1-s}\right)^N$$

$$\frac{T_n(N)}{(2n-1)!!}=P(n)$$

1

$$t(N,n) = \frac{T_n(N)}{(2n-1)!!}$$

$$P(n) = 0$$

$$\frac{T_n(N)}{(2n-1)!!} = \sum_{L=1}^{N} C_N^L \frac{\tilde{T}_n(L)}{(2n-1)!!}$$

$$\tilde{T}_n(L)$$

L

$\underline{\underline{2W}}$

$\lambda = 1 - n +$ Bop

$\underline{n+1 < L}$

$$\tilde{T}_0(L) = \tilde{T}_1(L) = \dots = \tilde{T}_{L-2}(L) = 0$$

$$\frac{\tilde{T}_n(L)}{(2n-1)!!} = A_L \, \underline{n(n-1)(n-2)(n-3)\cdots(n-L+2)}$$

$$T_n(N) = (2n-1)!! \sum_{L=1}^{N} A_L \, C_n^{L-1} C_N^{L} (L-1)!$$

$L = n+1$

$$A_{n+1} = \frac{2^n}{n!}$$

$2^n \cdot n! \cdot (2n-1)!!$

$$\boxed{\frac{(2n)!}{n!\,\cancel{(n+1)!}} = (2n-1)!!\,\frac{A_{n+1}}{\cancel{(n+1)!}}\,n!}$$

$$T_n(N) = (2n-1)!! \sum_{L=1}^{N} 2^{L-1} C_N^{L} C_n^{L-1}$$

$$C_n^{L-1} = 0 \quad n < L-1$$

$$1+2Ns+2s\sum_{n=1}^{\infty}\frac{T_n(N)}{(2n-1)!!}s^n=$$

$$1+2Ns+2s\sum_{n=1}^{\infty}s^n\left(\sum_{L=1}^{N}2^{L-1}C_N^{L}C_n^{L-1}\right)=$$

$$1+\sum_{L=1}^{N}2^{L}C_N^{L}\boxed{\sum_{n=L-1}^{\infty}C_n^{L-1}s^{n+1}}=\left(\frac{1+s}{1-s}\right)^N$$

$$\sum_{n=L-1} C_n^{L-1} S^{n+1}$$

$$S^{n-L+1}$$

$n-L+1$

L

$$C_n^{L-1}$$

$$\left(\frac{1+S}{1-S}\right)^N = \left(1 + \frac{2S}{1-S}\right)^N =$$

$$= 1 + \sum_{L=1}^{N} 2^L C_N^L \cdot \left(\frac{S}{1-S}\right)^L$$

$$\left(\frac{S}{1-S}\right)^L = S^L \cdot \underline{(1+S+S^2 \ldots + \ldots)(1+S+S^2 \ldots)(1+S \ldots)}$$