H28問8

$$E(S^{N(c)}) = \sum_{k=0}^{\infty} S^{k} P(N(c) = k) = \sum_{k=0}^{\infty} S^{k} \cdot e^{-|c|} \frac{|c|^{k}}{|c|} = e^{-|c|} \cdot \sum_{k=0}^{\infty} \frac{(S|c|)^{k}}{|c|} = e^{-|c|} \cdot e^{S|c|}$$

$$S_{N+1} := 1, \quad C_{N+1} := \left(\bigcup_{i=1}^{N} C_{i}\right)^{C} \times 33 \times,$$

$$f(x) = S_{1} \times C_{1} \quad (i=1,2,...,n+1) \times b \vee 1,$$

$$C_{1},C_{2},..., \quad C_{N},C_{N+1} := f_{N} \times K = 0$$

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$$C_$$

$$(:(!!)) = \sum_{k_1=0}^{\infty} S_1^{k_1} P(N(C_1) = k_1) \sum_{k_2=0}^{\infty} S_2^{k_2} P(N(C_2) = k_2) \cdots \sum_{k_{N+1}=0}^{\infty} S_{N+1} P(N(C_{N+1}) = k_{N+1})$$

$$= E(S_1^{N(C_1)}) \cdots E(S_N^{N(C_N)}) \cdot 1 \qquad \sum_{k_{N+1}=0}^{\infty} P(N(C_{N+1}) = k_{N+1}) = 1$$

$$= \prod_{i=1}^{n} e^{-(i-s_i)/C_i i} = \exp\left(-\sum_{i=1}^{n} (i-s_i)/C_i i\right)$$

Ju

$$E(\prod_{i=0}^{n-1} g_n(x_i)) = exp\{-\sum_{i=0}^{n-1} (1-\frac{1}{n}) \cdot \frac{1}{n}\}$$

$$E(T_{n}g(x)) = E(\lim_{n\to\infty} Tg_n(x)) = \lim_{n\to\infty} E(Tg_n(x)) = \exp\left\{-\lim_{n\to\infty} \sum_{i=0}^{n-1} (1-\frac{i}{n})\frac{1}{n}\right\}$$

$$\int_{\hat{h}} g_{h}(x) dx = \left[ \frac{1}{h} x \right]$$

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