Power and sequences of Binomial type

$$\forall R: \text{ Combinatorial species }, \forall \lambda \in \mathbb{N}$$

$$R^{\lambda}(x) = \sum_{n \in \mathbb{N}} r_n(\lambda) \cdot \frac{x^n}{n!}$$

Lemma

$$\forall n, \lambda, \mu \in \mathbb{N} r_n(\lambda + \mu) = \sum_{k=0}^{n} \binom{n}{k} r_k(\lambda) \cdot r_{n-k}(\mu)$$

Proof:

$$R^{\lambda+\mu} = R^{\lambda} \circ R^{\mu}$$

Now you can get the lemma trivially by comparing coefficients