자연수의 정규표현 (Canonical Representation of a Positive Integer)

Canonical Representation

Every positive integer n

Every positive integer n > 1

Every positive integer n > 1 can be represented

Every positive integer n > 1 can be represented in exactly one way

Every positive integer n > 1 can be represented in exactly one way as a product of prime powers.

n =

$$n=p_1^{\alpha_1}$$

$$n=p_1^{\alpha_1}p_2^{\alpha_2}$$

$$n=p_1^{\alpha_1}p_2^{\alpha_2}\cdots$$

$$n=p_1^{\alpha_1}p_2^{\alpha_2}\cdots p_k^{\alpha_k}$$

$$n=p_1^{\alpha_1}p_2^{\alpha_2}\cdots p_k^{\alpha_k}=$$

$$n=p_1^{\alpha_1}p_2^{\alpha_2}\cdots p_k^{\alpha_k}=\prod_{i=1}^k$$

$$n=p_1^{\alpha_1}p_2^{\alpha_2}\cdots p_k^{\alpha_k}=\prod_{i=1}^k p_i^{\alpha_i}$$

$$n=p_1^{lpha_1}p_2^{lpha_2}\cdots p_k^{lpha_k}=\prod_{i=1}^k p_i^{lpha_i}$$
 $(p_1$

$$n = p_1^{\alpha_1} p_2^{\alpha_2} \cdots p_k^{\alpha_k} = \prod_{i=1}^k p_i^{\alpha_i}$$
 $(p_1 < p_2)$

$$n = p_1^{\alpha_1} p_2^{\alpha_2} \cdots p_k^{\alpha_k} = \prod_{i=1}^k p_i^{\alpha_i}$$

 $(p_1 < p_2 < \cdots$

$$n = p_1^{\alpha_1} p_2^{\alpha_2} \cdots p_k^{\alpha_k} = \prod_{i=1}^k p_i^{\alpha_i}$$

 $(p_1 < p_2 < \cdots < p_k,$

$$n = p_1^{\alpha_1} p_2^{\alpha_2} \cdots p_k^{\alpha_k} = \prod_{i=1}^{\kappa} p_i^{\alpha_i}$$

$$(p_1 < p_2 < \cdots < p_k, p_i : \text{prime},$$

$$n = p_1^{\alpha_1} p_2^{\alpha_2} \cdots p_k^{\alpha_k} = \prod_{i=1}^k p_i^{\alpha_i}$$

$$(p_1 < p_2 < \cdots < p_k, p_i : \text{prime}, \alpha_i \in \mathbb{N})$$

$$n = p_1^{\alpha_1} p_2^{\alpha_2} \cdots p_k^{\alpha_k} = \prod_{i=1}^k p_i^{\alpha_i}$$

$$(p_1 < p_2 < \cdots < p_k, p_i : \text{prime}, \alpha_i \in \mathbb{N})$$

Github:

https://min7014.github.io/math20201216001.html

Click or paste URL into the URL search bar, and you can see a picture moving.