Class 21

$$f(-) \qquad f(-) \qquad f(-) \qquad n \rightarrow 2^{n}$$

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$$\sum_{i=1}^{n} \binom{n}{i} = \binom{n}{0} + \binom{n}{1} + \binom{n}{2} + \binom{n}{3} + \cdots + \binom{n}{n} = 2^{n}$$

$$\sum_{i=0}^{n} \binom{n}{i} = \binom{n}{0} + \binom{n}{1} + \binom{n}{2} + \binom{n}{3} + \dots + \binom{n}{n} = 2$$

$$3 \Rightarrow \binom{3}{1}, \binom{2}{1}, \binom{3}{1} \Rightarrow \binom{3}{1} + \binom{3}{2} + \dots + \binom{n}{n} = 2$$

$$\binom{3}{1}, \binom{2}{1}, \binom{3}{1}, \binom{3}{1} \Rightarrow \binom{3}{1} + \binom{3}{2} + \dots + \binom{n}{n} = 2$$

$$\binom{3}{1}, \binom{2}{1}, \binom{3}{1}, \binom{3}{1} \Rightarrow \binom{3}{1} + \binom{3}{$$