Assignment 3: More induction, Sets and Relations

Ernesto Rodriguez

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Problem 2.5:

1. $\#\{< x, y >\} = 1 + \sum_{i=1}^{n} \binom{n}{i} * 2^i$

2. $\#\{< x, y >\} = n + \sum_{i=1}^{n} \binom{n}{i} * 2^{n-i}$