

- Find all combos of K nums that sum to N

- nums from $1..9$

- each combo must be a unique set.

$$1\ 2\ 3\ 4 \rightarrow 10$$

$$1\ 2\ 3\ 4\ 5 \rightarrow 15$$

$$K = 3$$

$$N = 7 \rightarrow 1..N - \text{Sum}[1..K] \rightarrow 1..7 - 5[1..3] \rightarrow 1..7 - 3 \rightarrow 1..4$$

1

2

3

4

1 2

1 3

1 4

2 3

2 4

3 4