Combination Sum III

Find all valid combinations of k numbers that sum up to n such that the following conditions are true:

- Only numbers 1 through 9 are used.
- Each number is used **at most once**.

Return *a list of all possible valid combinations*. The list must not contain the same combination twice, and the combinations may be returned in any order.

Example 1:

Input: k = 3, n = 7

Output: [[1,2,4]]

Explanation:

1 + 2 + 4 = 7

There are no other valid combinations.

Example 2:

Input: k = 3, n = 9

Output: [[1,2,6],[1,3,5],[2,3,4]]

Explanation:

1 + 2 + 6 = 9

1 + 3 + 5 = 9

2 + 3 + 4 = 9

There are no other valid combinations.

Example 3:

Input: k = 4, n = 1

Output: []

Explanation: There are no valid combinations.

Using 4 different numbers in the range [1,9], the smallest sum we can get is 1+2+3+4 = 10 and since 10 > 1, there are no valid combination.

Constraints:

- $2 <= k <= 9$
- $1 <= n <= 60$