## Partition into K subset which are non-empty

```
def partitionInKSubsets(n, k):
    ans = [[] for i in range(k)]
    partitionInKSubsetsUtil(n, k, ans, 0, 1)
    return
def partitionInKSubsetsUtil(n, k, ans, sets, i):
    if i > n:
        if sets == k:
           print(ans)
        return
    for j in range(len(ans)):
        if len(ans[j]) > 0:
            ans[j].append(i)
            partitionInKSubsetsUtil(n, k, ans, sets, i + 1)
            ans[j].pop()
        else:
            ans[j].append(i)
            partitionInKSubsetsUtil(n, k, ans, sets + 1, i + 1)
            ans[j].pop()
            break
partitionInKSubsets(3, 2)
[[1, 2], [3]]
[[1, 3], [2]]
[[1], [2, 3]]
def KpartitionSet(n, k):
    ans = [None] * k
    helper(n, k, ans, 0, 1)
    return
```

def helper(n, k, ans, setCount, i):

if i > n: