77. Combinations

Given two integers n and k, return all possible combinations of k numbers out of 1 ... n.

Example:

```
Input: n = 4, k = 2
Output:
[
   [2,4],
   [3,4],
   [2,3],
   [1,2],
   [1,3],
   [1,4],
]
```

```
* 这是个回溯算法。用一个循环递归处理子问题,问题的终止条件是每个组合中的
* 元素个数达到k个
public class L77 {
    public List<List<Integer>> combine(int n, int k) {
        List<List<Integer>> res = new ArrayList<List<Integer>>();
        List<Integer> temp = new ArrayList<Integer>();
        dfs(res, temp, n, k, 1);
        return res;
    }
    public void dfs(List<List<Integer>> res, List<Integer> temp, int n, int k, int m) {
        if(k == 0)
            res.add(new ArrayList<Integer>(temp));
        for(int i = m; i <= n; i++) {</pre>
            temp.add(i);
            dfs(res, temp, n, k-1, i+1);
            temp.remove(temp.size() - 1);
    }
}
```