

Combinations

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Question

Solution

 Total Accepted: **55175** Total Submissions: **174931** Difficulty: **Medium**

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

For example,

If $n = 4$ and $k = 2$, a solution is:

```
[
  [2,4],
  [3,4],
  [2,3],
  [1,2],
  [1,3],
  [1,4],
]
```

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 Python ▼


```
1 class Solution(object):
2     def combine(self, n, k):
3         """
4         :type n: int
5         :type k: int
6         :rtype: List[List[int]]
7         """
8         returnColumn=[]
9         tmp=[0 for i in range(k)]
10        self.getCombine(returnColumn,tmp,0,n,k)
11        return returnColumn
12    def getCombine(self,returnColumn,tmp,step,n,k):
13        if step==k:
14            returnColumn.append(tmp[0:])
15            return
16        for i in range(1 if step==0 else tmp[step-1]+1,n+1):
17            tmp[step]=i
```

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```
self.getCombine(returnColumn,tmp,step+1,n,k)
```

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