

Combinations - I

```
def combinations(n, r):  
    res = []  
    combinationsUtil(n, r, '', res, 0, 0)  
    return res  
  
def combinationsUtil(n, r, ssf, res, box, apples):  
    if box==n:  
        if r==apples:  
            res.append(ssf)  
        return  
  
    combinationsUtil(n, r, ssf+'a', res, box+1, apples+1)  
    combinationsUtil(n, r, ssf+'-', res, box+1, apples)  
  
print(combinations(10, 5))
```

Here we are giving the apples the choice to either go in a box or not go into it.