increasing order

$\dfrac{4P_3}{\underline{3} \text{ combinations}}$

$4 \times 3 \times 2$

any doubts?

P_{NC}

what
how
why

dry run

watch the
dry run

```java
public static void combinations(boolean[] boxes, int ci, int ti, int lb){
    if(ci > ti){
        for(int i=0; i<boxes.length; i++){
            if(boxes[i]==true){
                System.out.print(s: "i");
            } else {
                System.out.print(s: "-");
            }
        }
        System.out.println();
        return;
    }
    for(int i = lb +1; i<boxes.length; i++){
        if(boxes[i]==false){
            boxes[i]=true;
            combinations(boxes,ci+1,ti,i);
            boxes[i]=false;
        }
    }
}
```