10 10 95% M&T

→ Amazon Internship test → Oct / Nov

→ ↳ 2/3 Coding Questions (C++)
- Trees / DP
- Medium-Hard
- Recursion

↳ 18-20 MCQ Questions (Negative marks)
- ↳ Pseudo code / Java programming
- DBMS (Database management system) → query ↓ SQL
- OS / CN (computer network) → theoretical
- Operating system
- aptitude / logical reasoning

Time constraints

MCQ

n = 5

for (int i = 0; i < n; i++)
{

printing the "i"

(

a) 0 1 2 3 4
b) 0 1 2 3 4
c) 0 1 2 3 4
d) N

function

2 coding

→ Reverse an array → Easy

main.

Recursion (30-40 %)

looping → i = 1; i <= 5

P

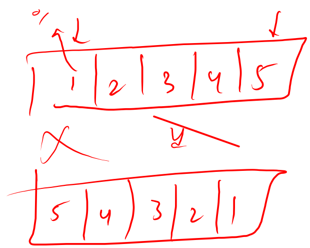
MCQ →

25
↳ sections
↳ MCQ - 9

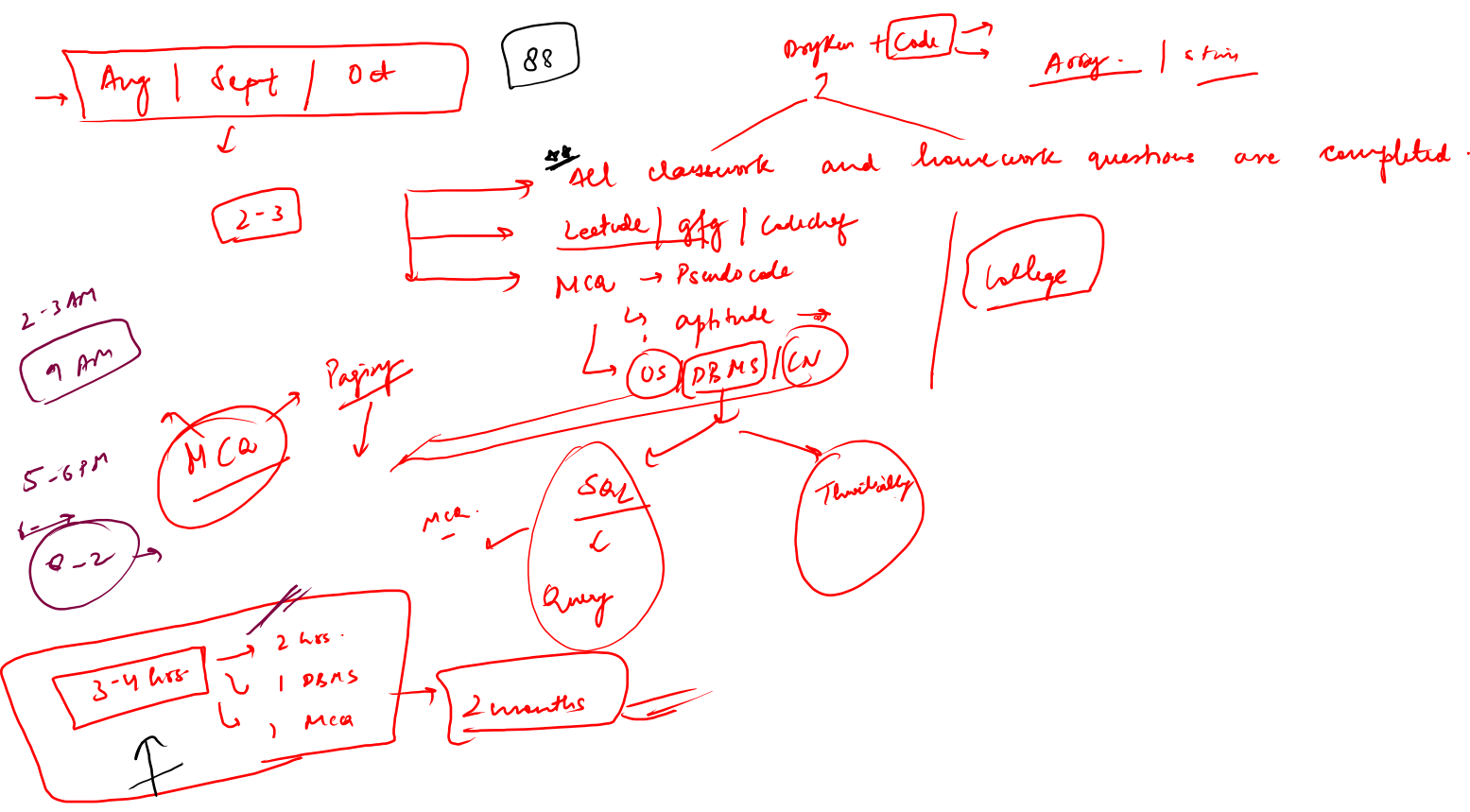
Medium

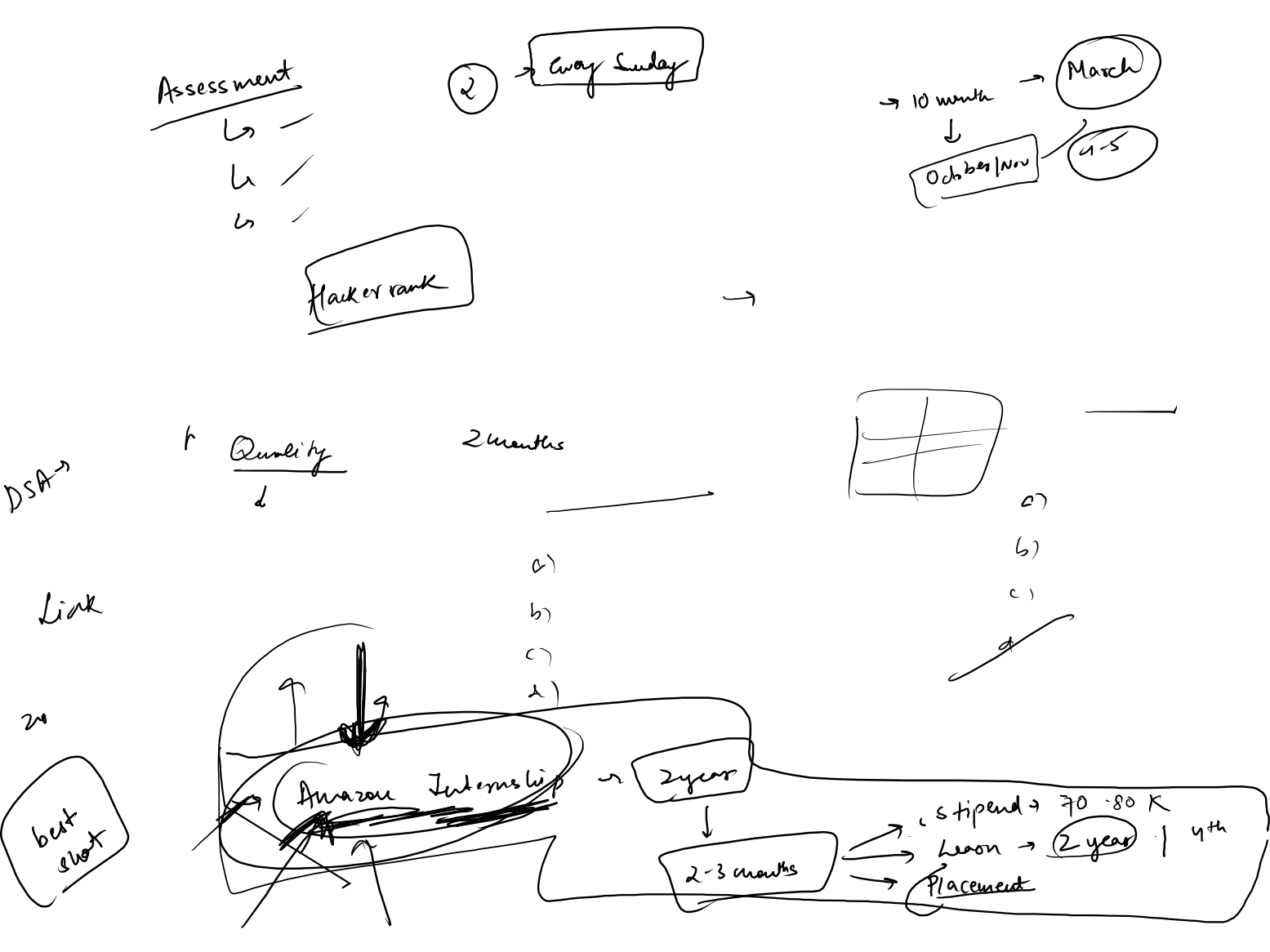
99%

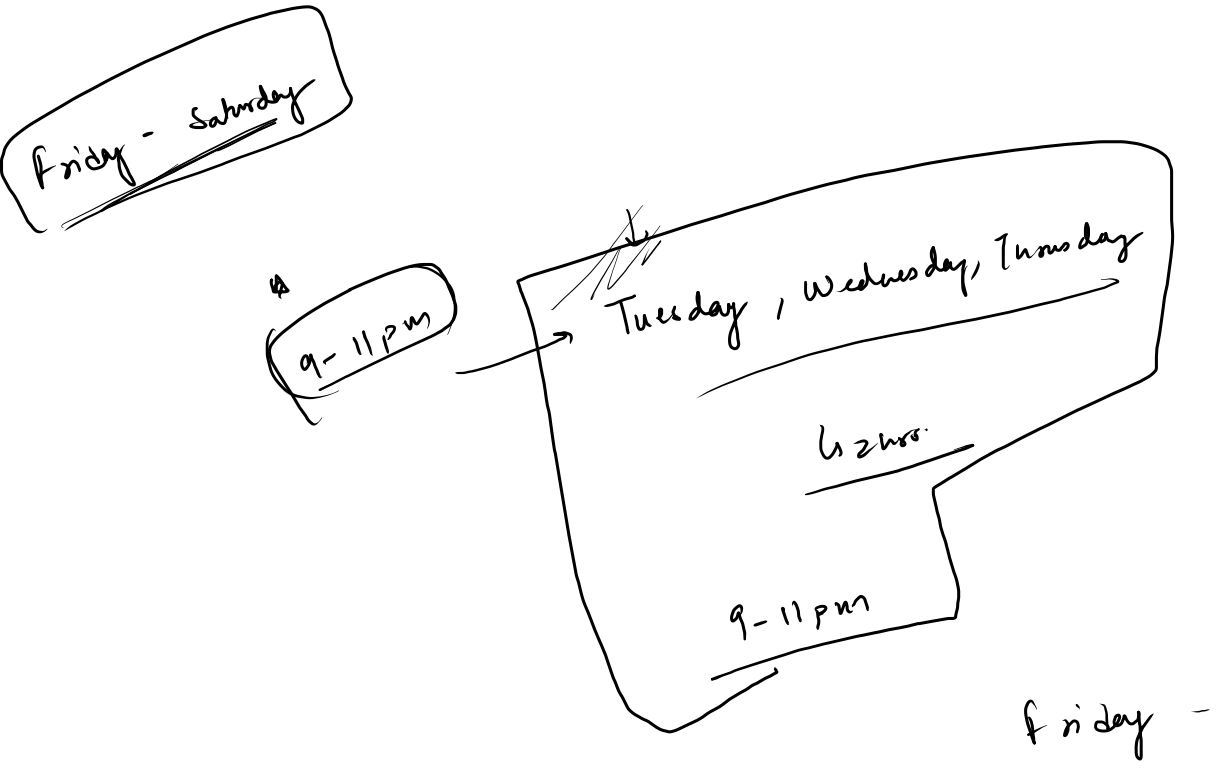
Online



Percentage | Profit & Loss | Interest


Aug | Sept | Oct
88
Dsplan + Code
Array | strings
All classwork and homework questions are completed
2-3
Leetcode | gfg | Codechef
MCQ → Pseudo code
aptitude
College
2-3 AM
9 AM
Paging
MCQ
OS
DBMS
CN
5-6 PM
0-2
SQL
C
Query
Theoretically
mca
3-4 hrs
2 hrs
1 DBMS
1 Mca
2 months


Assessment
2
Every Sunday
10 month
March
October/Nov
4-5
Hacker rank
DSA
Quality
2 months
Link
best shot
Amazon Internship
2 years
2-3 months
stipend → 70-80 K
Leave → 2 years
Placement
4th


Friday - Saturday
9 - 11 pm
Tuesday, Wednesday, Thursday
4 hrs.
9 - 11 pm
Friday -

Combinations - 1 (Day 28)

Problem | Submissions | Leaderboard | Discussions

1. You are give a number of boxes (nboxes) and number of identical items (ritems).

2. You are required to place the items in those boxes and print all such configurations possible.

Items are identical and all of them are named 'i'. Note 1 -> Number of boxes is greater than number of items, hence some of the boxes may remain empty. Note 2 -> Check out the question video and write the recursive code as it is intended without changing signature. The judge can't force you but intends you to teach a concept.

Sample Input 0

```
5
3
```

Sample Output 0

```
iii--
ii-i-
ii--i
i-ii-
i-i-i
i--ii
-iii-
-ii-i
-i-ii
--iii
```

nboxes = 2

ritems = 5

nboxes > ritems

nboxes = 5

ritems = 3 identically

5 → 3

Recursively

nboxes = 5

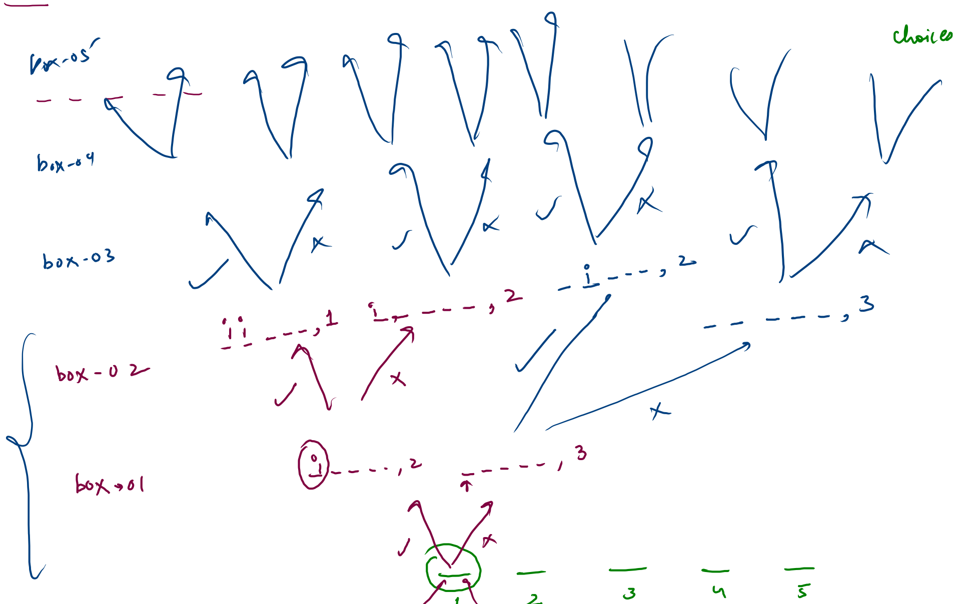
ritems = 3 (identical)

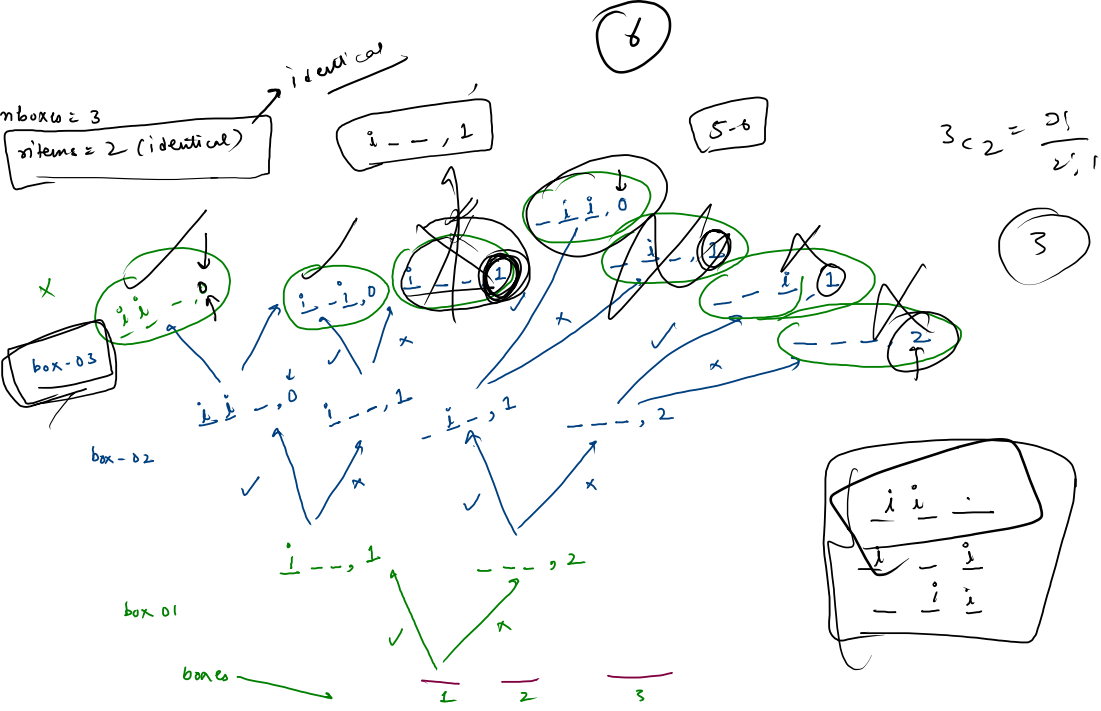
→ One box → one item

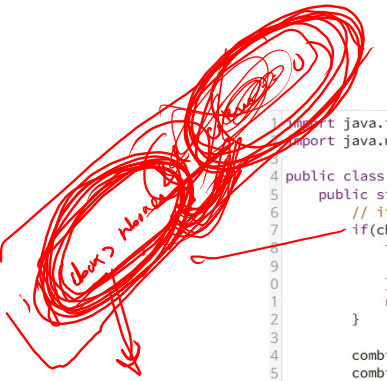
→ nboxes > ritems.

choices

if ( )



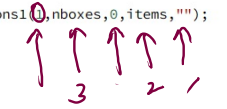

identical
nboxes = 3
nitems = 2 (identical)
box-03
box-02
box-01
boxes
1
2
3



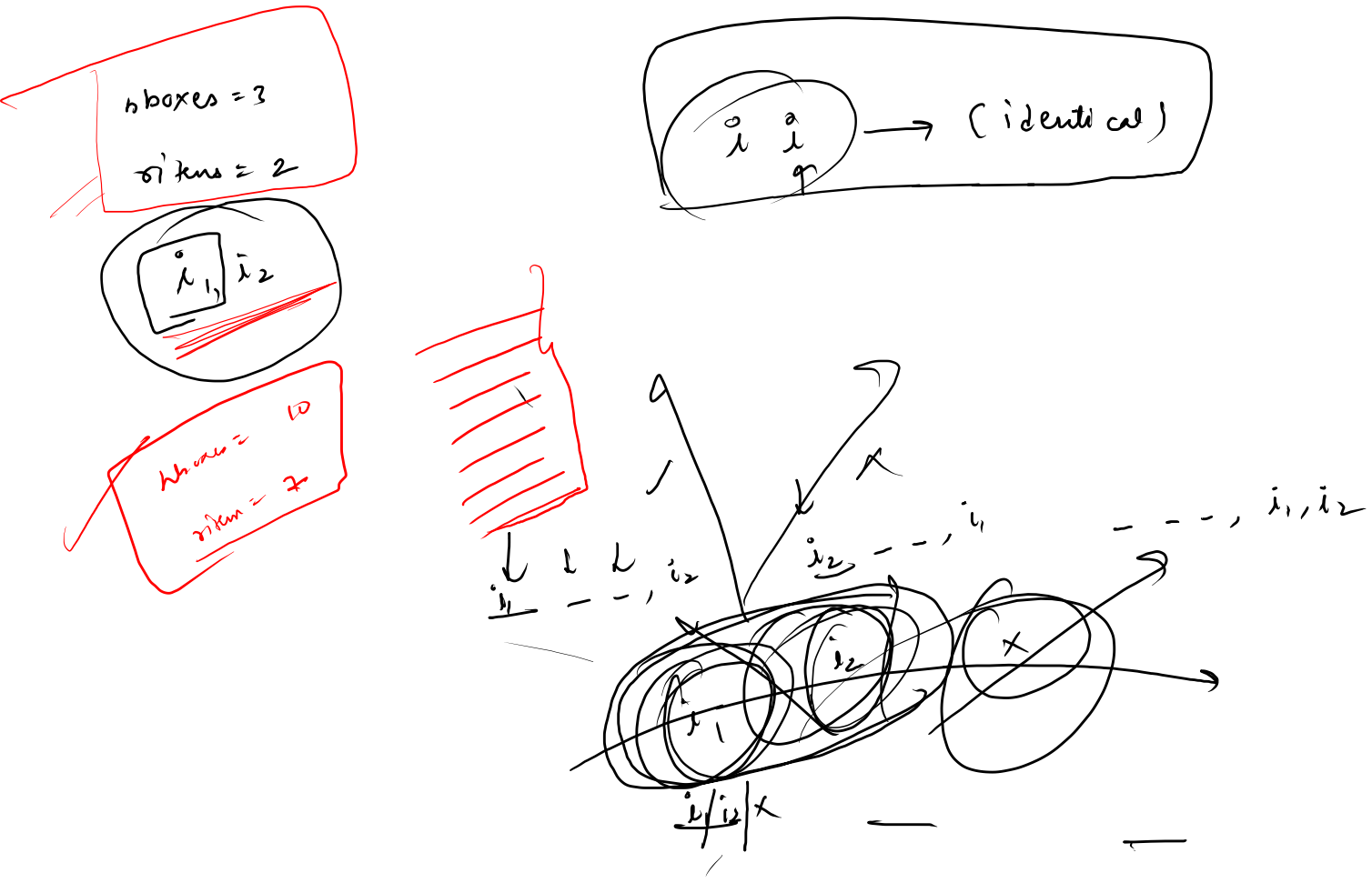
follow-up

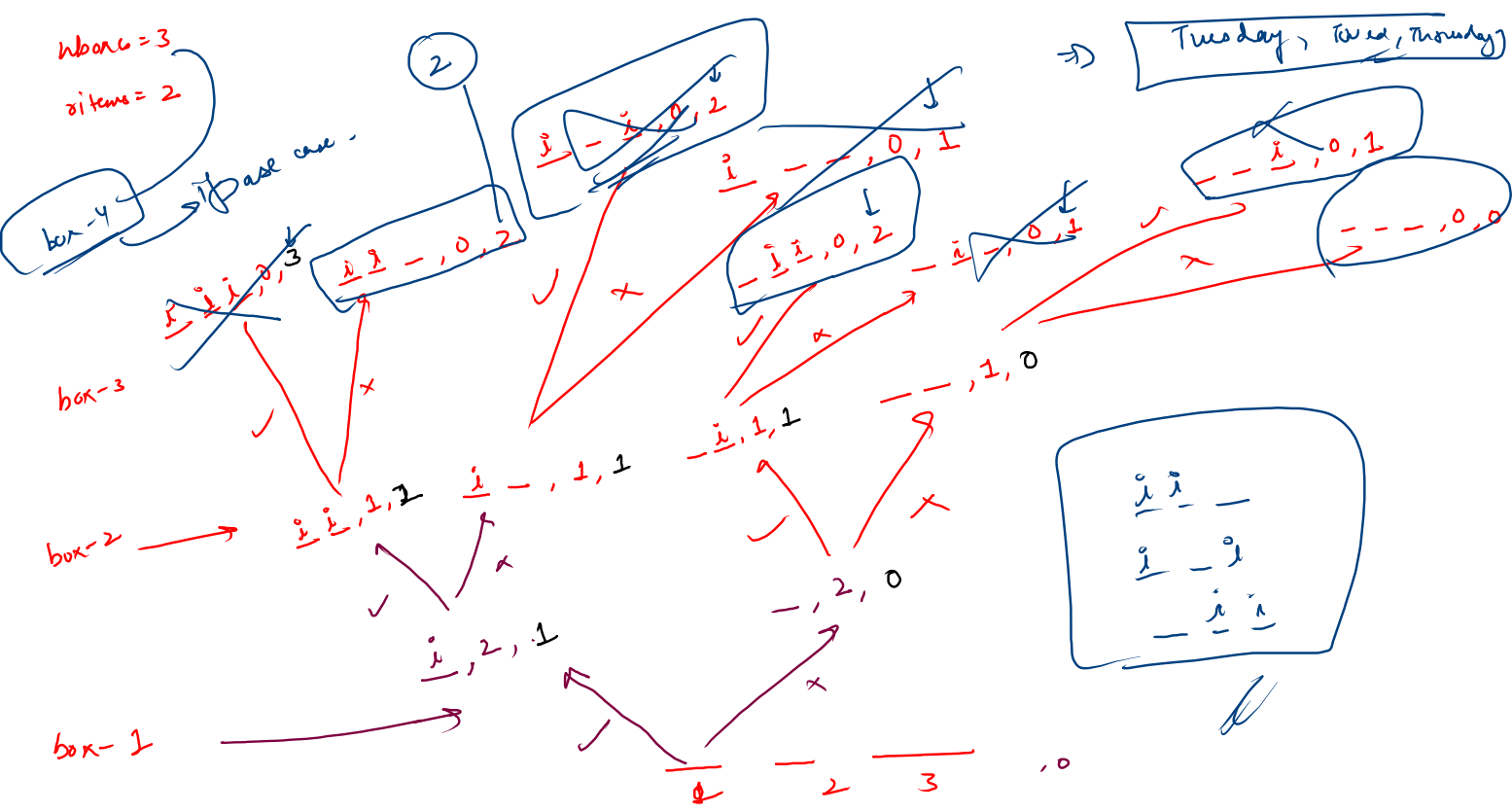
→ items → (non-identical)

```java
import java.io.*;
import java.util.*;

public class Solution {
    public static void combinations1(int cbox,int nboxes,int citem,int items,String ans){
        // items -> choices, box -> placeholder
        if(cbox>nboxes){
            if(citem == items){
                System.out.println(ans);
            }
            return;
        }

        combinations1(cbox+1,nboxes,citem+1,items,ans+"i");
        combinations1(cbox+1,nboxes,citem,items,ans+"-");

    }

    public static void main(String[] args) {
        /* Enter your code here. Read input from STDIN. Print output to STDOUT. Your class should
        Scanner scn = new Scanner(System.in);
        int nboxes = scn.nextInt();
        int items = scn.nextInt();

        combinations1(0,nboxes,0,items,"");
    }
}
```



cbox → nboxes


nboxes = 3
nballs = 2
identical
(identical)


wbags = 3
nitems = 2
box-4
base case.
2
box-3
box-2
box-1
Tuesday, Wednesday, Thursday
0 1 2 3