15 mins until break ⇒

Bubble Sort

(write Code)

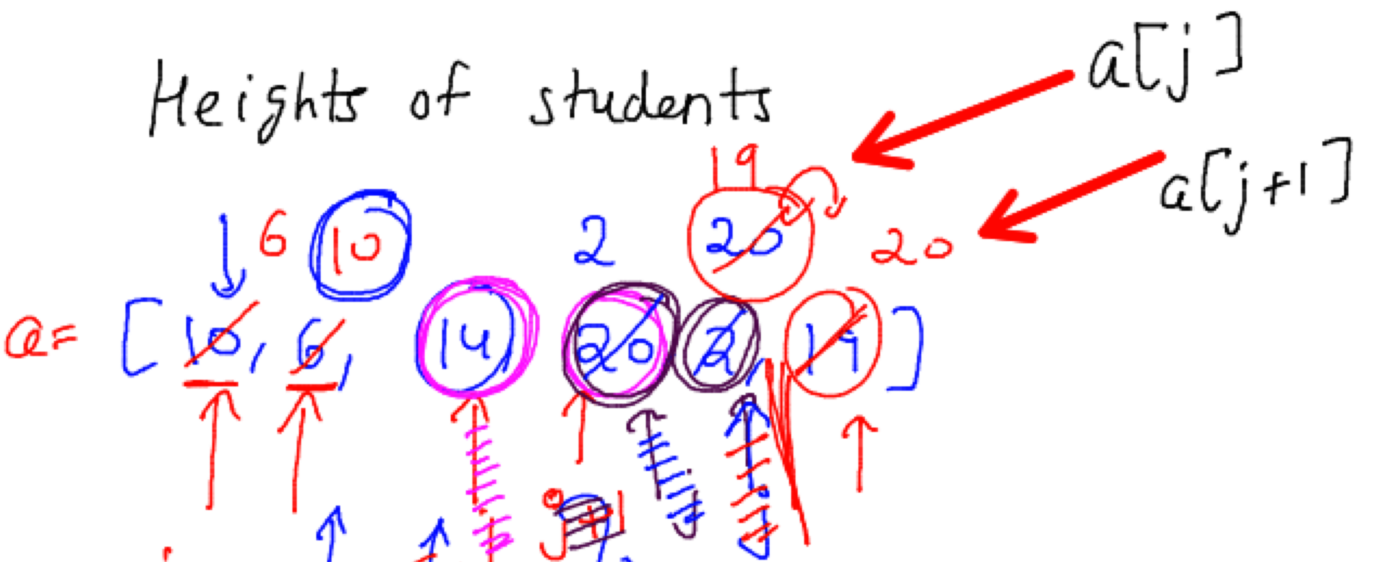
0 - Logic Pseudocode.

1 - Plan the Code

2 - Write actual code

3 - Test

Heights of students



N = 6

0	1	2	3	N-3	N-2	N-1
6	10	14	2	19	20	

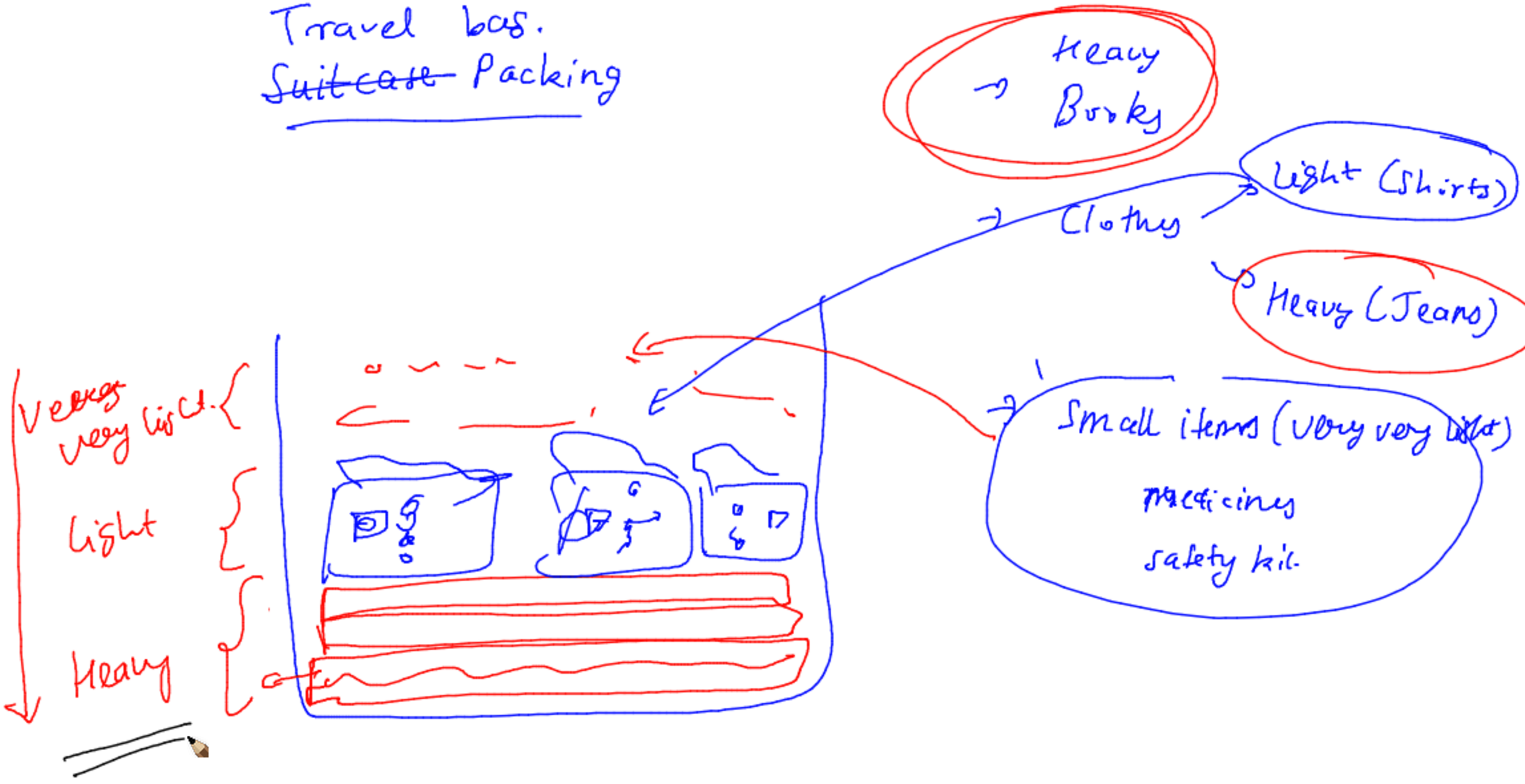
j < 5

```
while j < N-1
    if a[j] > a[j+1]:
        swap(a[j], a[j+1])
    j += 1
```

10 X 14
20 > 19

Travel bag.

~~Suitcase~~ Packing



Selecting & Adding/placing in order of value.

[1 5 -1 2 10 3]

[-1, 1, 2, 3, 5, 10]

Selection Sort

→ Find next smallest, append to the sorted array

a = [1 5 -1 2 10 3]

arrSorted = [-1, 1, 2, 3, 5, 10]

HW! Try to implement →
(1) with extra space
(2) Without extra space.

$\frac{N}{2} = \frac{1}{2} * N$

X

O(N)

Pseudo code

i++

++i

=>

Python

i += 1

Mid-module will include everything covered until Wed, 14th Sept 11 pm

You have left the meeting

We get frequent requests for your notes!

Notes written by you helps in understanding the topic better. You can upload the notes in two simple steps mentioned below

1. **Scan the QR code with your iPad**
   Scanner should be present in the top menu on your iPad
2. **Upload Notes on the generated link**
   All notes uploaded will be visible in the saved version of this session

OR

Drag and drop files or **click here to upload**

Code_Annotations.pdf — Uploading