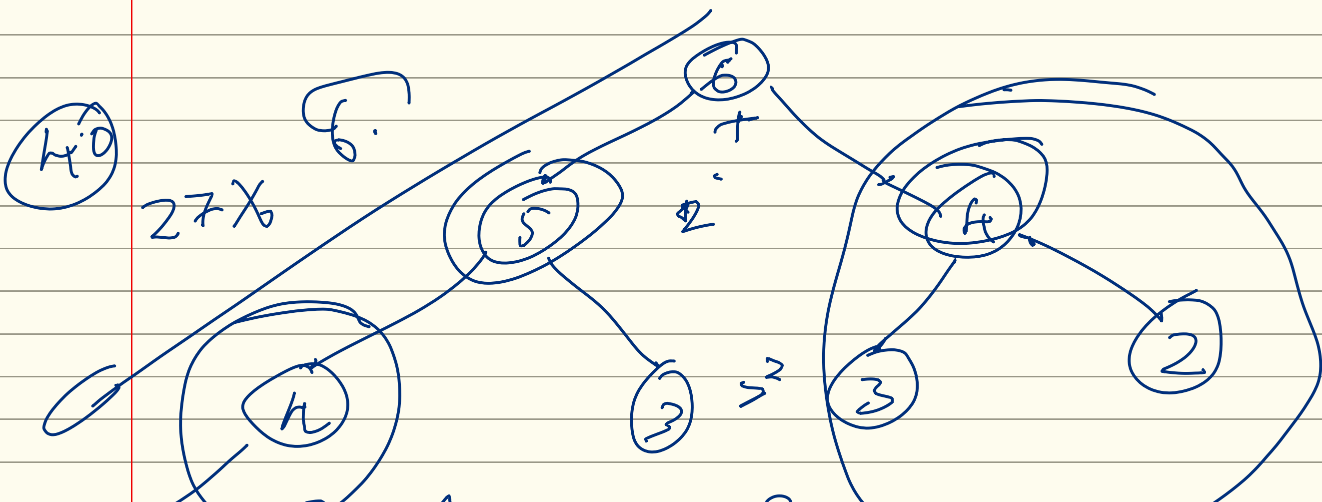
KK DSA 1:

AGENDA:

1. Structure of the course
   1. Topic per week.
   2. Saturdays:
      3 – 5 hard problems.
   - 1 topic 20 – 22
     2 top.

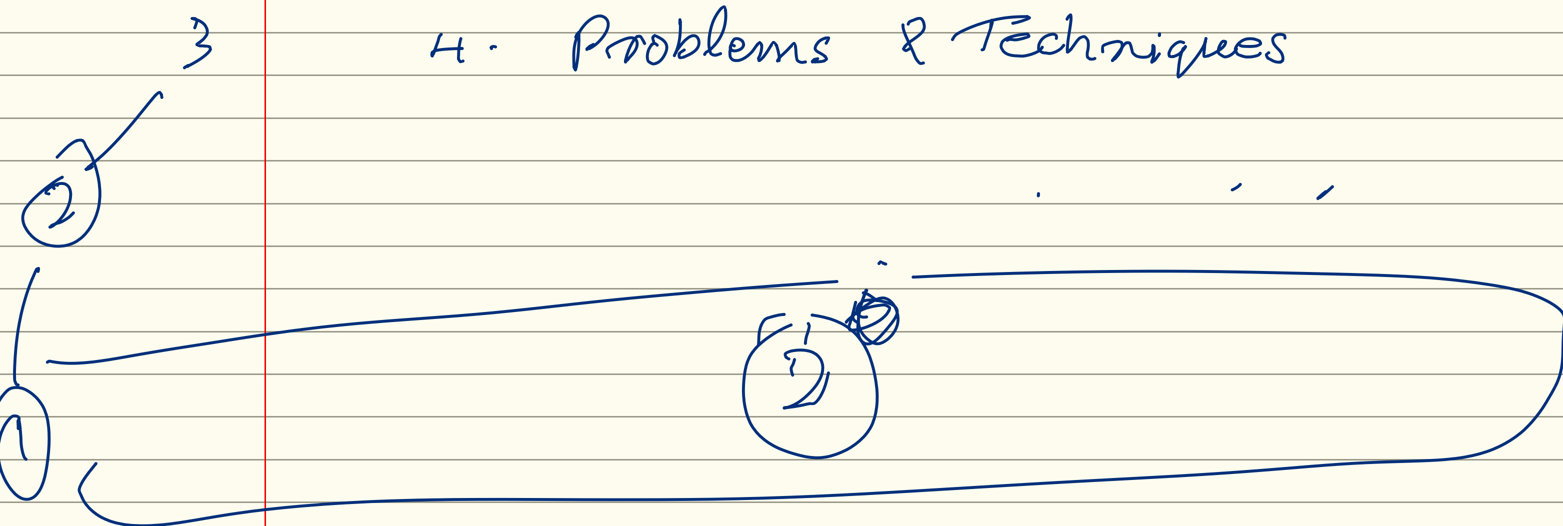
12 [2] [10] (7) 6
3 – 4 M
1 – 2 H

2. Time & Space complexiety BIG O



3. Arrays 2^3

4. Problems & Techniques



8

0	1	1	2	3	0	0	0	0
0	1	2	3	4	5	6	7	8

i = 2   1+0   2

3   1+1   2

4   2+1   2.

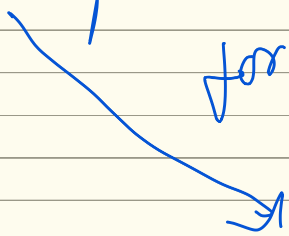
$n \times 1 = O(n)$

$O(2^n)$

for ( ) :

for ( ) :

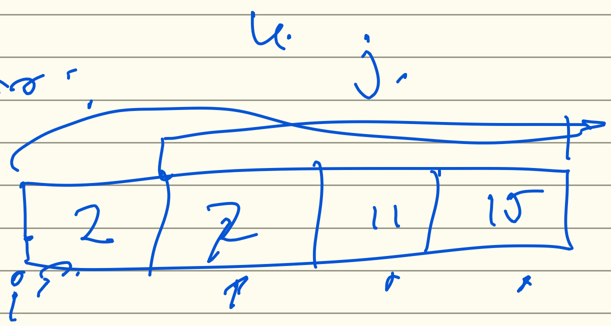
for ( ) :



n^3

for :

for :



2	7	11	15

2. 3

7 2

3 3

3+2×1

= 6

num[i] + num[j] == Target.

[i , j]

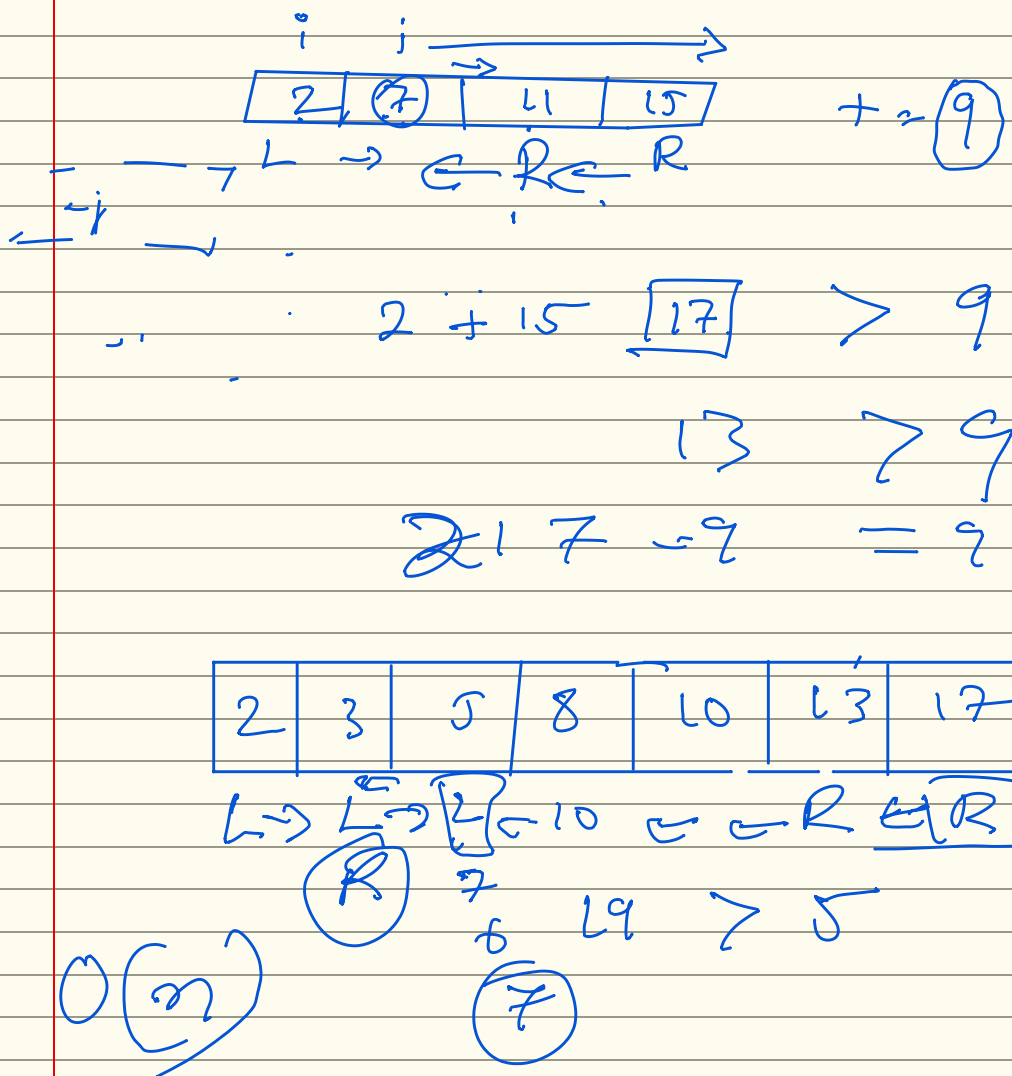
1000

$\frac{n^2 + n}{2}$ $\frac{n \times (n+1)}{2}$

9 a 4

4 c 8

2 x 2


i
j
2
7
11
15
+= 9
2 + 15 = 17 > 9
13 > 9
17 - 9 = 9
2
3
5
8
10
13
17
5
14 > 5
O(n)