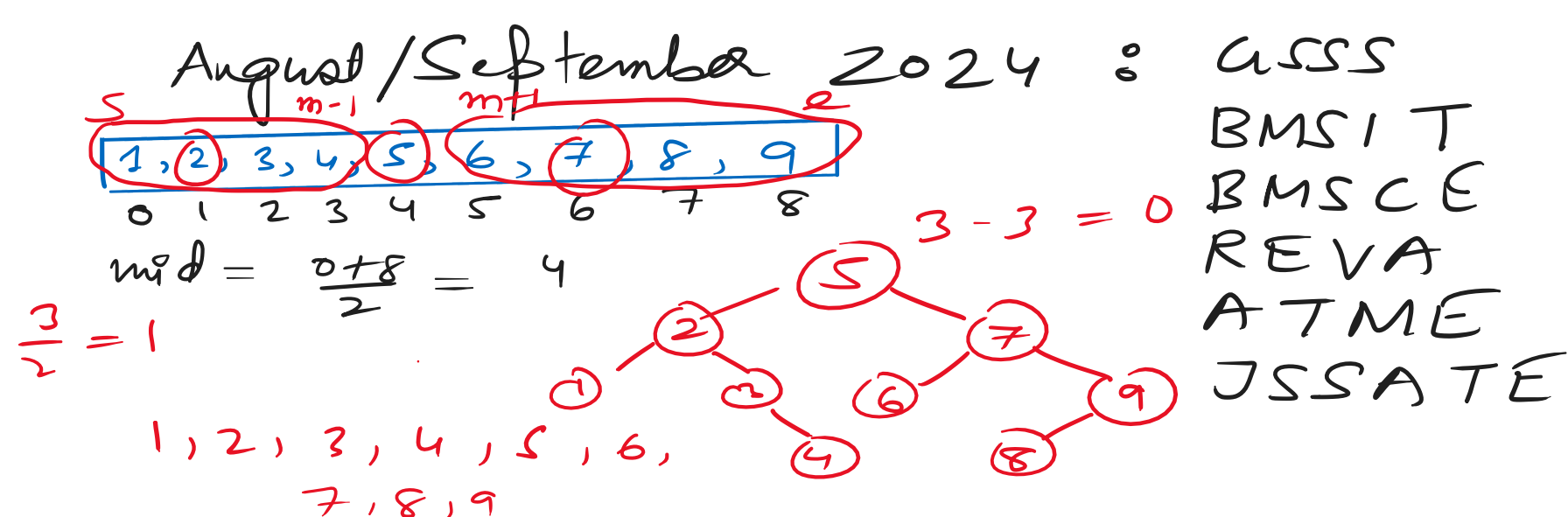* STL Important Questions & tips & tricks :→

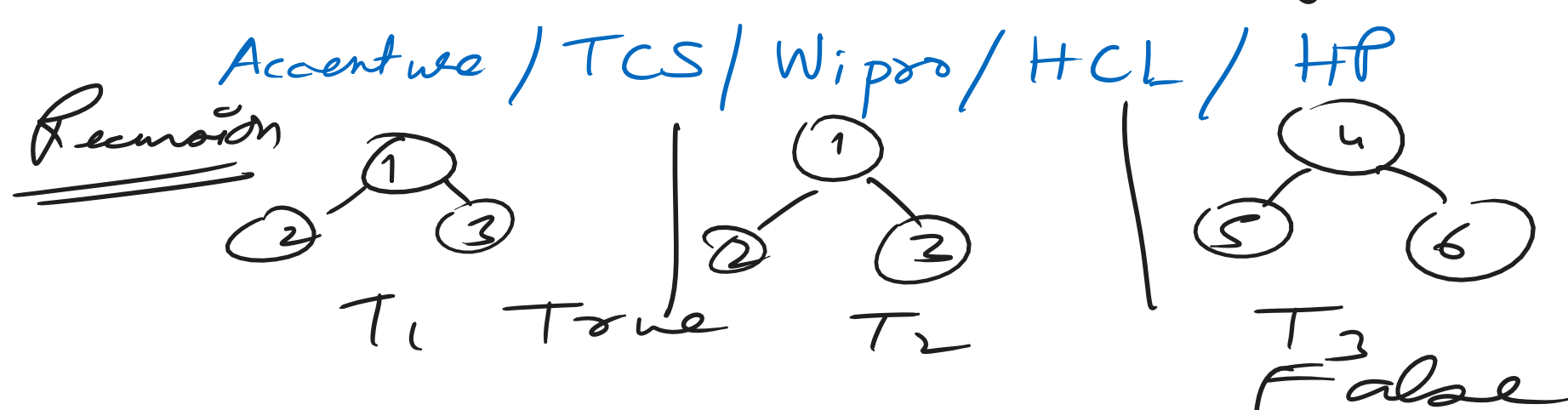1. Find the common elements in two/three sets. [GSSS - 23, 24]
2. Find the sum of all the [22, 23, 24] elements in a vector.
3. Find the common elements in 3 vectors. [2024]

SIEMENS :→   6 - 8 LPA

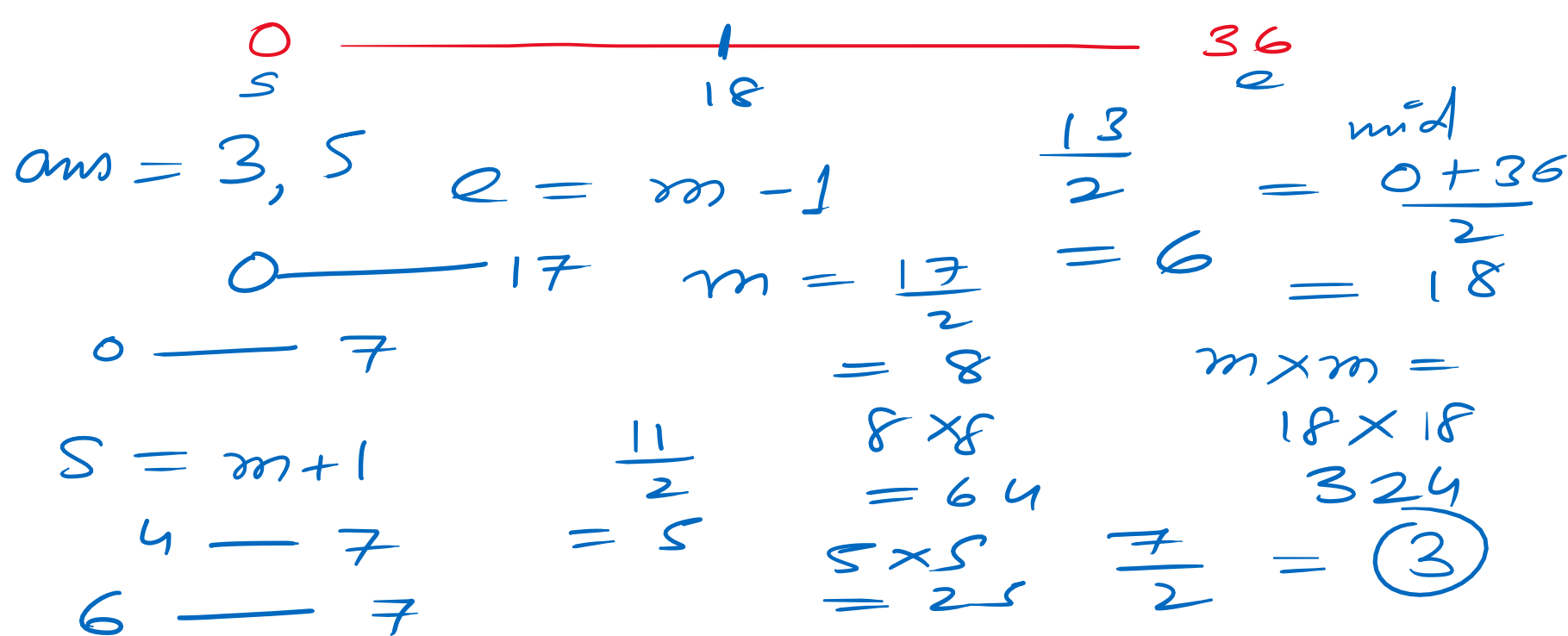* Given a sorted array of integers, convert it into a "Balanced BST."

August/September 2024 :   GSSS
BMSIT
BMSCE
REVA
ATME
JSSATE

	m-1		m+1		
1, 2	3, 4,	5	6, 7	8, 9
0 1	2 3 4	5	6 7	8

$mid = \frac{0+8}{2} = 4$

$\frac{3}{2} = 1$

3 - 3 = 0

1, 2, 3, 4, 5, 6, 7, 8, 9

* Given two Binary Trees T1 & T2, write a program to identify whether the two given trees are identical or not. *(Segment Tree)

Accenture / TCS / Wipro / HCL / HP

Recursion

T₁   True   T₂   T₃ False

* Binary Search Applications:
↳ Square root of a number using Binary Search.

$n = \underline{36}$ ans = - 1 ;

```
O                    l                    36
S                   18                    e
```

ans = 3, 5 $e = m - 1$ $\frac{13}{2}$ mid $= \frac{0+36}{2}$

```
O ——————— 17    m = \frac{17}{2}   = 6      = 18
O —— 7            = 8            m × m =
S = m+1          \frac{11}{2}     8 × 8         18 × 18
4 —— 7           = 5             = 64          324
6 —— 7                           5 × 5   \frac{7}{2} = ③
                                 = 25
```

$n = \underline{64}$ ⑧

```
O ———— l ——— 64        m = 32
O —— 31                \frac{31}{2} = 15   1024
O — 14
ans = 49      7        8 - 10         ⑪
              8 —— 14  \underline{\sqrt{8 - 8}}   \frac{15}{9}
IAG TCT                8 × 8 = 64
```