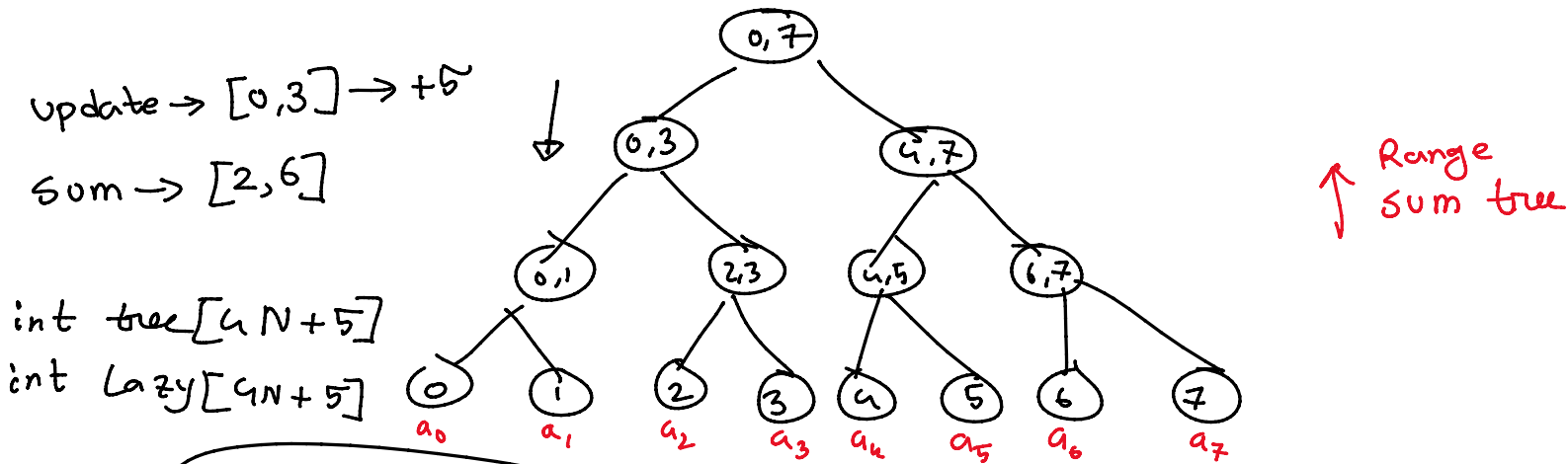


## SegTree - Lazy propagation

1) SegTree  $\rightarrow$  point update  
range query }  $O(\log N)$

range update & query  $\rightarrow O(\log N)$



```
int tree[4N+5]
```

```
int lazy[4N+5]
```

$$lazy[nd] != 0$$
$$\text{tree}[nd] += (en - st + 1) \times \text{lazy}[nd] \quad a_2 + a_3 + a_4 + a_5 + a_6$$
$$az_y[n_d + n_d] += az_y[n_d]$$
$$[a_2 y]_{[n_d + n_d + 1]} + = [a_2 y]_{[n_d]}$$
$$\text{lazy}[\text{rd}] = 0$$

```
void update(-...)
```

} pushDown(st, en, nd)

//previous logic

}

int query (.....)

{ pushDown(st,en,nd)

//previous logic

}

— o —