egment Tree Concepts & Gns.



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"No more Jean of Segment Tree"

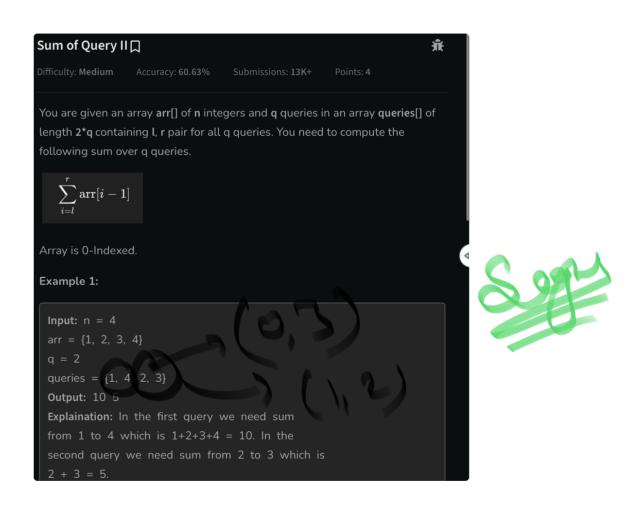
"So many success stories. Next one is going to be yours?



Recap :

- we understood about segment Tree? what? why? When?
- buildSegmentToree
 - Example Range Sum in an average
 - UPdate Gury
 - / Range Quoy
- why take 4*n size avoray

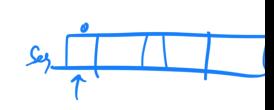
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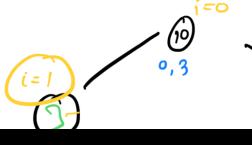


Steps:-

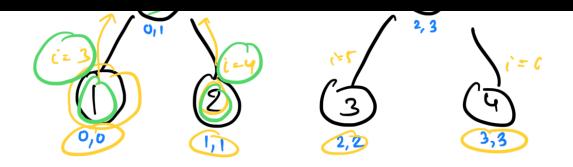
(1) Build Segment Tree (0, n-1, segmente, 0);

$$\omega = \{1, 2, 3, 43\}$$









```
Void-Builds (int 1, int 8, syllne, i) {

if (l = = r) {

segina [i] = 0 will]; He han;

int mid = l+(r-1)/2;

Suild (l, mid, segina, a \times i+1);

Build (l, mid, segina, a \times i+1);

Suild (l, mid+l, r, soft, a \times i+1);

segiment[i] = segina [a \times i+1] + segina [a \times i+1];
```

query (start, end) Svm.

query (start, end, Q, O, n-1, segTree);

```
int guy (start, end, i, l, 8, segtocee) {

if (l>end | r<start) {

te tarn 0;

if (l>= start & & <=end) {

the turn seginal (i');

y

mid = l+(r-1)/2;

then quy (start, end, 2xi+1, 1, mid, 15h)

+ qu (st, end, 2xi+2, min+1, 8, sep.)
```