

[Sun, 3.3.19]

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[10:05PM] Contemporary working has to be rebooted.

Tried noting down today's logs rather than typing.

This document exists as placeholder.

[10:06PM] Listening to Gaurav Sen talk on Square Root Decomposition in arrays.

From $O(\sqrt{n} + 2\sqrt{n})$ to $O(\sqrt{n})$ or something. Presentation unclear.

I need to make a tutorial video to teach this to myself now. He says $O(1)$ - order one time is possible for traversal. Not very clear at all.

Points to Discuss in Video:

- + Big O notation is time complexity as well as algorithmic complexity
- + Why the square root decomposition method is not made by some genius.
- + Why square root n is the answer,
- + there are segmentary questions you can't answer using square root decompositions.
- + Why not cube root decomposition.
- + Understand Moore's algorithm. $O(N^{5/3})$ is the update now. Not square.

[10:12PM] This live session is taking too long.

$B = \text{size}(\text{block})$

$N/B = \text{no. of blocks}$

$Q = \dots$

[10:24PM] Gaurav Sen and Aditya Ramesh are by far the most meta-descriptive and lengthy computer science based content creators. Presenting content in an elitist fashion $\therefore$ it's better to read a dry textbook than watch their content.

[10:31PM] ...This day ends here...

Not much was done today. I'm not counting this day in the build week.