Viva Discussion

# With Sudarshan Iyengar Sir

Firstly, I was asked about my interest point in this course. I told sir that before minor I liked the concept of dynamic programming, to be precise in that, I explained him the RNA pairing problem. Continuing on that I told him that my recent interest is in the randomized algorithm, for example randomized min cut. I also told him that I liked German Tank problem in the cryptography session that the sir took, though before I couldn't relate the Algorithm course with the real world problems but now there seems to be a link between them.

After that, I was asked to explain the algorithm of min cut problem, which I explained that first we take random edge and coalesce the two vertices into one and add the edges from the neighbouring vertices to this new node. Repeat this till we are left with two nodes and set of remaining vertices will be a cut. We will find n2 cuts and the minimum of those will be min cut.

Then I was asked to show my code, since it was taking some time for 30 nodes I was said to make a graph of 20 nodes of my choice and show that my code was working. In the creativity part, I showed a graph with dashed edges showing the min cut edges.

After all this, Sir told me to read about Knuth Morris Pratt Algorithm and to discuss with him afterwards.

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