

NPTEL

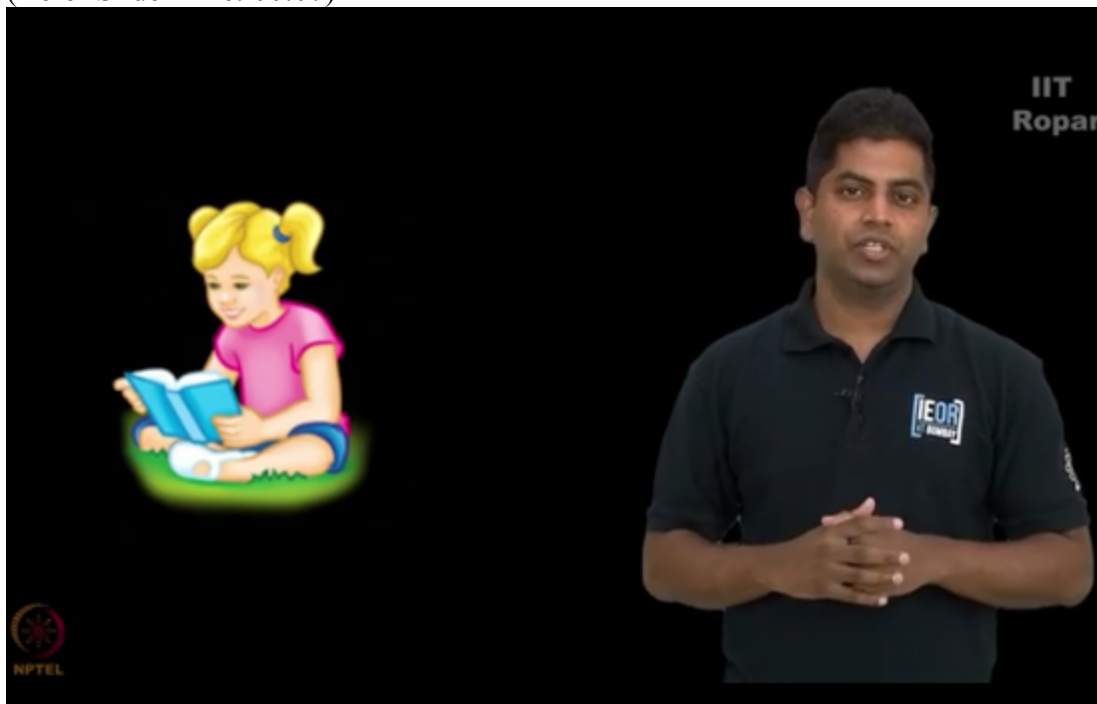
NPTEL ONLINE CERTIFICATION COURSE

**Discrete Mathematics
Recurrence Relation**

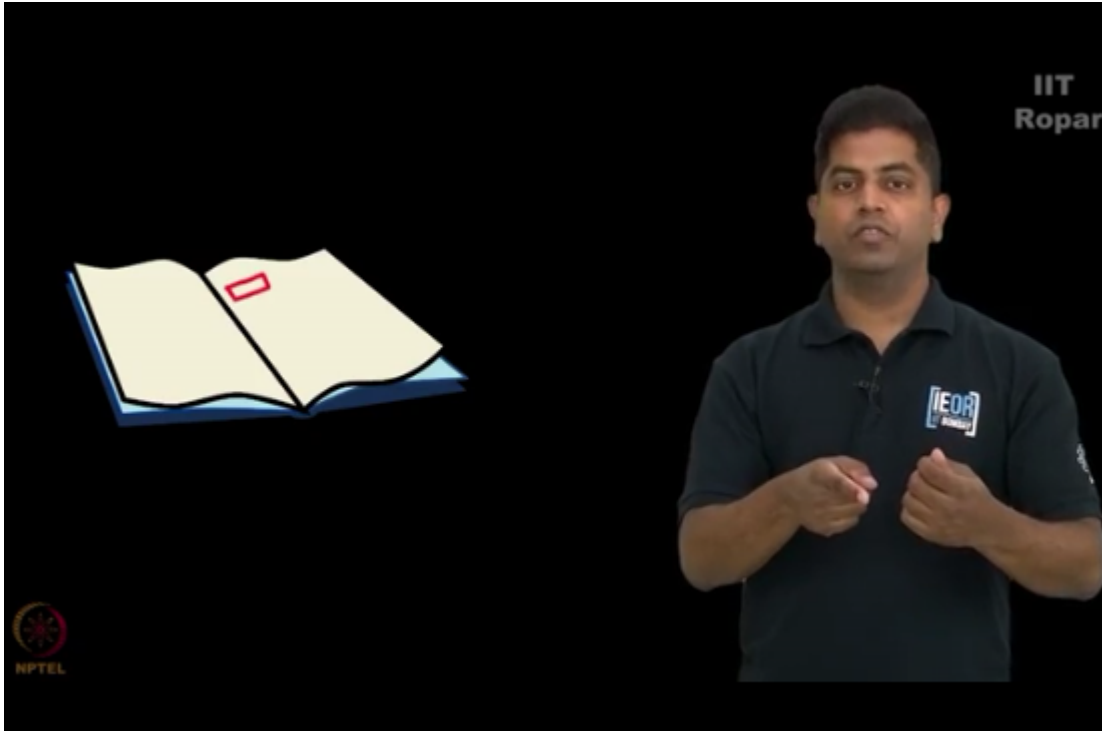
A searching technique

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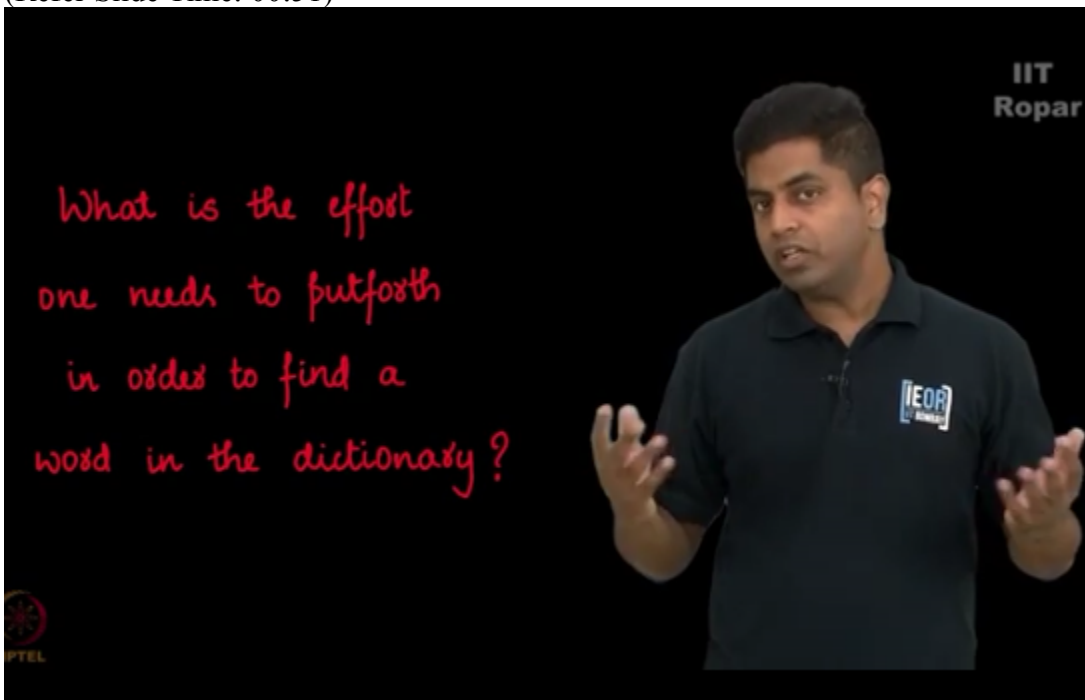
Imagine this little girl,
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searching through a dictionary for a word that she's after, she wants to know the meaning of the word, how will she get hold of this word? What exactly is the amount of effort that she is going to expend in searching through the dictionary for this word, can we even quantify it? You can always say what if she just like that opens the dictionary and boom,
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there is the word, that means she got lucky, correct, in the worst possible case what is the amount of effort one needs to put forth in order to find a word in the dictionary, (Refer Slide Time: 00:51)



you see it is not a whole lot, it seems to be very small, but what exactly is it, can we pin it down?

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