



141,356 views Jan 28, 2021 Pre-Computation Techniques

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In this episode 12 of my competitive programming course, I discuss about pre-computation techniques and how they can help you optimise your code and you can hence avoid time limit exceeded errors. In this video along with the basics of pre-computations i also discuss one of the very important pre-computation technique that is hashing.

PRACTICE QUESTIONS FOR HASHING & PREFIX SUM:

EASY

https://www.hackerearth.com/practice/..

https://practice.geeksforgeeks.org/pr..

https://www.hackerearth.com/practice/..

https://practice.geeksforgeeks.org/pr.. https://www.codechef.com/problems/ICL

https://www.hackerearth.com/practice/..

https://www.hackerearth.com/practice/..

https://www.hackerearth.com/practice/...

https://leetcode.com/problems/contain...

https://www.hackerearth.com/practice/...

https://leetcode.com/problems/single-...

https://leetcode.com/problems/contain...

https://leetcode.com/problems/valid-a...

EASY MEDIUM/HARD

https://www.hackerearth.com/practice/...

https://leetcode.com/problems/word-pa..

https://leetcode.com/problems/valid-s...

https://www.hackerearth.com/practice/...

https://leetcode.com/problems/rabbits..

https://codeforces.com/contest/1426/p..

(for some difficult questions, you might require knowledge of c++ sets/maps)

Timestamps:

Pre-Computation with factorial example: (0:00)

Hashing with example: (7:00)

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Competitive Programming... Luv - 18 / 112

Ultimate Competitive... Luv



Replace all HEADER FILES wit...



Best Competitive Coding Setup for...



C++ Basics for Competitive...



Overflow, Precision Errors, Calculatio...



Conditions, Loops, Jump Statements...



C++ Strings, Getline and Big...



Why YOU should use STRING...



Arrays and Size Limits for Local &...

Algorithms Related



Pre-Computation using Prefix Su... Luv 💿

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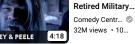


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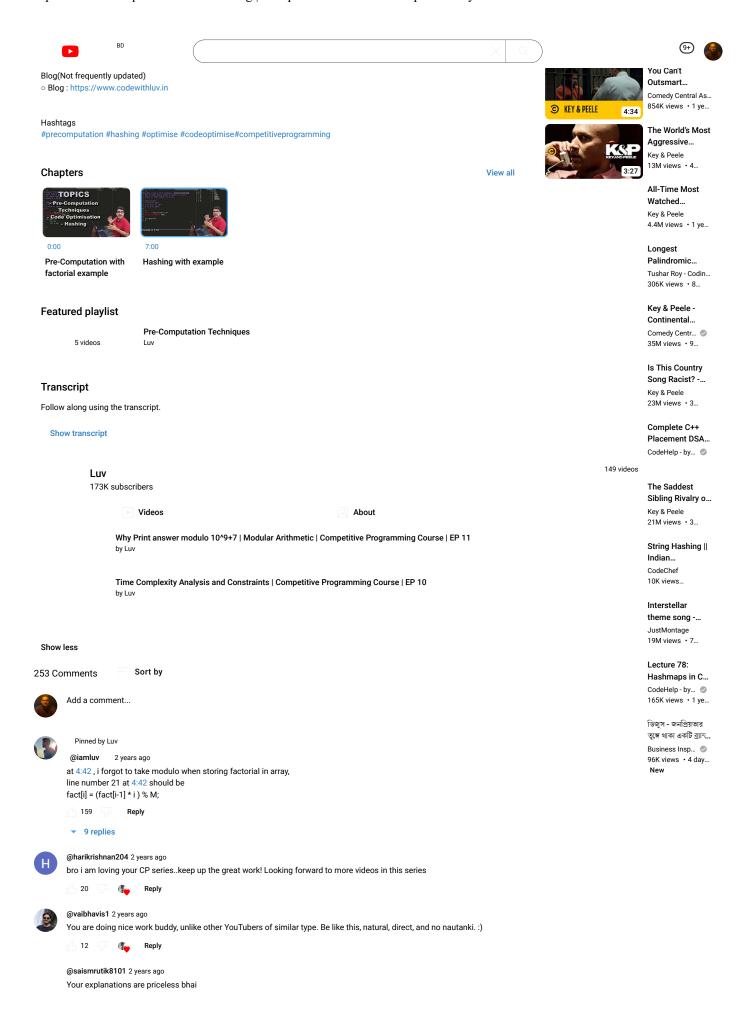
Key & Peele -





Worst Liar ("Th...

9/15/2023, 10:43 PM 1 of 4



2 of 4 9/15/2023, 10:43 PM

	BD
@darshanta	vte7435 1 year ago
The best th	ng about this course is the structured format. I never knew when to use precomputation until now.
<u>6</u> 5 🗇	Reply
@mohitshriv	astava8897 2 years ago
Bro, The co	ntent is so good that I felt guilty of skipping the ad. so I played the entire 2 ads of 2 min each :D. I urge ever
one to do th	e same as a gesture of appreciation and gratitude. Thnx again!
<u>131</u> 5	Reply
•	1 replies
@abhishekh	orton79 2 years ago (edited)
-	ng called memoization which is used to solve DP problems
	hat, I'm enjoying your playlist you're doing great work for students like me, please complete this series 😌
<u>6</u> 8 9	Reply
▼ 2 repli	s
@aaditvasha	rma6855 2 years ago
	videos, please continue this series. Thanks a lot
67	Reply
	(1907)
@de_ansh 2	
I started la	e with competitive programming , but your videos have been great help .
Thank you	o much sir
<u>6</u> 4 7	Reply
@tanjiraj932	5 2 years ago
	g explanation 😍 loved it so much & learned something very important.take love brother 🤎
	Reply
@funeniovni	aypatel4553 1 year ago
	stions are priceless bhai
	and please complete this series whatever happens 💚
<u> </u>	Reply
0	
@amanrube	r z years ago ople's future is resting on your shoulders. Thank you sir. It is making an impact.
12 T	Reply
L 12 V	перу
	002 2 years ago
	oproach Thanks for the clarity sir 🔥 🙌
	Reply
@studious2	4 2 years ago
Thanks, sir	or this awesome series.
	Reply
@anmol3 2	nonths ago
	"hashmap" instead of hash arrays if the value exceeds 10^7
	Reply
@october35	8 1 year ago
	verwhelmed ryt now this is the third time I have found a treasure in my programming journey! truly sparki
my curiosity	and intrest in cp! Thankyou for the good content :-)
	Reply
▼ 1 reply	
@shajidulio!	um2783 10 months ago
I just wante	to know if the problems given in the description can be solved with the technics shown in this video or do
	ch other precomputation technics too?
	Reply
@bhawna19	
Hi My doub	is if we compute all the factorial and precompute won't that increase the space complexity?
<u>6</u> 2 🖓	Reply

3 of 4 9/15/2023, 10:43 PM

(17) Pre-Computation Techniques Basics & Hashing | Competitive Pro... https://www.youtube.com/watch?v=efET3lxYCkM&list=PLauivoElc3...



4 of 4