



**BHAI AAYA HAI ,POINTERS SAMJHA KE JAAYEGA !**  
*(brother has come ,relax he wont go before explaining Pointers)*

**Practice concept of Pointers through these exhaustive mcq's**

<https://www.sanfoundry.com/c-plus-plus-aptitude-question-answer-pointers/>

<https://www.geeksforgeeks.org/output-c-programs-set-39-pointers/?ref=rp>

<https://www.geeksforgeeks.org/output-c-programs-set-47-pointers/>

<https://www.geeksforgeeks.org/output-c-programs-pointers/?ref=rp>

<https://www.geeksforgeeks.org/output-c-programs-set-31-pointers/?ref=rp>

<https://www.geeksforgeeks.org/output-c-programs-set-38-pointers/?ref=rp>

**Lectures for studying POINTERS in depth in C++**

[https://www.youtube.com/watch?v=h-HBipu\\_1P0&list=PL2\\_aWCzGMAwLZp6LMUKI3cc7pgGsa-sm2\\_](https://www.youtube.com/watch?v=h-HBipu_1P0&list=PL2_aWCzGMAwLZp6LMUKI3cc7pgGsa-sm2_)

[https://www.youtube.com/watch?v=4RII-\\_e9-0M](https://www.youtube.com/watch?v=4RII-_e9-0M)



## Lectures for studying Time Complexity and BigO

<https://www.youtube.com/watch?v=D6xkbGLQesk>

[https://www.youtube.com/watch?v=kS\\_gr2\\_-ws8&t=3s](https://www.youtube.com/watch?v=kS_gr2_-ws8&t=3s)



## Time Complexity PRACTICE questions

<https://www.geeksforgeeks.org/practice-questions-time-complexity-analysis/>

## Resources for managing 2D arrays

<https://www.geeksforgeeks.org/multidimensional-arrays-c-cpp/>

<https://stackoverflow.com/questions/61680/how-to-work-around-a-very-large-2d-array-in-c>

<https://medium.com/@patdhik/c-2d-array-a-different-better-solution-6d371363ebf8>

[https://www.youtube.com/watch?v=kS\\_gr2\\_-ws8&t=3s](https://www.youtube.com/watch?v=kS_gr2_-ws8&t=3s)



<https://www.youtube.com/watch?v=KDQXUysHLL8>

<https://www.youtube.com/watch?v=tw-qWGG8y5g>

### **Resources for Multiset in C++**

<https://www.geeksforgeeks.org/multiset-in-cpp-stl/>

<https://www.youtube.com/watch?v=xxA2QjKj73w>

### **Resources for Vectors in C++**

<https://www.geeksforgeeks.org/vector-in-cpp-stl/>

<https://www.bitdegree.org/learn/c-plus-plus-vector>

<https://www.youtube.com/watch?v=bADtYBxrM8I>

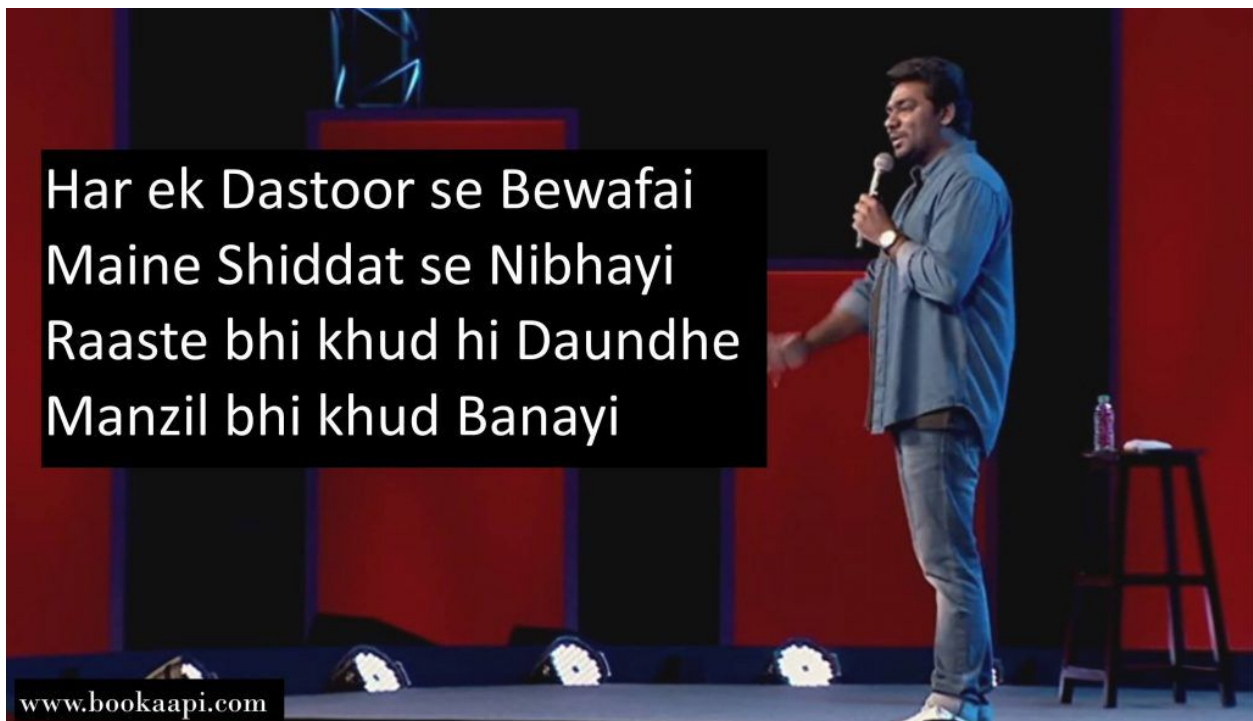
<https://www.youtube.com/watch?v=loBmNtiTXd0>

### **SOME TALKS BY THE CREATOR OF LINUX**

<https://www.youtube.com/watch?v=4XpnKHJAok8>

<https://www.youtube.com/watch?v=o8NPIIzkFhE>

<https://www.youtube.com/watch?v=WVTWCPoUt8w&t=1s>



## Recursion

<http://faculty.salisbury.edu/~ealu/COSC220/Files/Notes/recursion.htm>

<https://data-flair.training/blogs/recursion-in-c-cpp/>



<https://web.stanford.edu/class/archive/cs/cs106x/cs106x.1192/lectures/Lecture8/Lecture8.pdf>

<http://web.stanford.edu/class/cs106b/lectures/intro-to-recursion/>

<https://web.stanford.edu/class/archive/cs/cs106x/cs106x.1192/lectures/Lecture10/Lecture10.pdf>

[https://www.youtube.com/watch?v=\\_OmRGjbyzno&list=PL2\\_aWCzGMAwLz3g66WrxFGSXvSsvyfzCO](https://www.youtube.com/watch?v=_OmRGjbyzno&list=PL2_aWCzGMAwLz3g66WrxFGSXvSsvyfzCO)

<https://www.youtube.com/watch?v=c7VjS7ZZVWM>

<https://www.youtube.com/watch?v=ggk7HbcnLG8>

<https://www.youtube.com/watch?v=B3U6LExgevE>

<https://www.youtube.com/watch?v=JRKs3s15Kjc>

QUIZ

[https://www.bogotobogo.com/cplusplus/quiz\\_recursion.php](https://www.bogotobogo.com/cplusplus/quiz_recursion.php)

7 year old me  
seeing an x in  
math



17 year old  
me seeing **an**  
**x** as a **variable**  
**name** in **code**





## Prime No, Fibonacci, Factorial

<https://www.youtube.com/watch?v=i75XXC1XWVs>

## (PRIME LOGIC

<https://www.geeksforgeeks.org/c-program-to-check-prime-number/>)

## Double Pointer (Pointer to Pointer) in C/C++

<https://www.geeksforgeeks.org/double-pointer-pointer-c/>





	1	2
1	Constraints (Max N)	Minimum Complexity
2	$10^{18}$	$O(\log N)$
3	$10^8$	$O(N)$
4	$10^4$	$O(N^2)$
5	$10^7$	$O(N \log N)$
6	$< 500$	$O(N^3)$
7	$< 85-90$	$O(N^4)$
8	20	$O(2^N)$
9	11	$O(N!)$

For dealing with constraints in coding questions. This is very helpful .



[Main Shunya Pe Sawar Hu | Nazm by Zakir Khan | Jashn-e-Rekhta](#)







ESHAN

Mera Sab bura bhi kehna,  
Par aacha bhi sab batana.  
Mai jau duniya se toh sabko  
Meri dastaan sunana Yeh bhi Batana Ki kaise  
Samandar jeetne se pehle,  
Mai Na jaane kitni choti-choti  
nadiyon se hazaaron bar haara tha.  
Woh ghar Woh zameen deekhna,  
Koi magrur bhi kahega toh tum  
Usko shuruwat meri batana.  
Batana safar ki dushwariya mere,  
Taki koi jo Meri jaisi zameen se aaye  
Uske liye nadi ki haar choti hi rahe.  
Samsndar jeetne ka khawab  
Uske dil aur dimag se na jaaye.  
Par unse meri galatiya bhi mat chupana.  
Koi poche toh bata dena ki  
Mai kiss darje ka nakara tha.  
Keh dena ki jhoota tha mai.  
Batana ki kaise  
zarurat par kaam na aa saka.  
Wade kiye par nibha na saka.  
Intqaam saare poore kiye  
par ishq adhura rehne diya.  
Bata dena sabko ki,  
mai matlabi bada tha.  
Har bade mukaam pe  
tanha hi mai khada tha.  
Mera Sab bura bhi kehna,  
Par aacha bhi sab batana.  
Mai jau duniya se toh sabko  
Meri dastaan sunana.

BY : ZAKIR KHAN



ADIOS