Used Links: - Birthday Paradox Problem: [https://www.geeksforgeeks.org/birthda...](https://www.youtube.com/redirect?redir_token=aar_v7QaJ84wh0YqDH9_Yy7Kvkl8MTU4NzcwNTkxNUAxNTg3NjE5NTE1&q=https%3A%2F%2Fwww.geeksforgeeks.org%2Fbirthday-paradox%2F&v=GwVDCi8CCAI&event=video_description) -

Codeforces Link: [https://codeforces.com/problemset?tag...](https://www.youtube.com/redirect?redir_token=aar_v7QaJ84wh0YqDH9_Yy7Kvkl8MTU4NzcwNTkxNUAxNTg3NjE5NTE1&q=https%3A%2F%2Fcodeforces.com%2Fproblemset%3Ftags%3Dmath%2Cbrute%2520force&v=GwVDCi8CCAI&event=video_description)

Big Integer: [https://www.geeksforgeeks.org/biginte...](https://www.youtube.com/redirect?redir_token=aar_v7QaJ84wh0YqDH9_Yy7Kvkl8MTU4NzcwNTkxNUAxNTg3NjE5NTE1&q=https%3A%2F%2Fwww.geeksforgeeks.org%2Fbiginteger-class-in-java%2F&v=GwVDCi8CCAI&event=video_description)

- Factorial of Large Number: [https://practice.geeksforgeeks.org/pr...](https://www.youtube.com/redirect?redir_token=aar_v7QaJ84wh0YqDH9_Yy7Kvkl8MTU4NzcwNTkxNUAxNTg3NjE5NTE1&q=https%3A%2F%2Fpractice.geeksforgeeks.org%2Fproblems%2Ffactorials-of-large-numbers%2F0&v=GwVDCi8CCAI&event=video_description)

- Modular Arithmetic Properties: [http://theoryofprogramming.com/2014/1...](https://www.youtube.com/redirect?redir_token=aar_v7QaJ84wh0YqDH9_Yy7Kvkl8MTU4NzcwNTkxNUAxNTg3NjE5NTE1&q=http%3A%2F%2Ftheoryofprogramming.com%2F2014%2F12%2F24%2Fmodular-arithmetic-properties%2F&v=GwVDCi8CCAI&event=video_description) -

Fast Exponentiation: [https://www.geeksforgeeks.org/modular...](https://www.youtube.com/redirect?redir_token=aar_v7QaJ84wh0YqDH9_Yy7Kvkl8MTU4NzcwNTkxNUAxNTg3NjE5NTE1&q=https%3A%2F%2Fwww.geeksforgeeks.org%2Fmodular-exponentiation-power-in-modular-arithmetic%2F&v=GwVDCi8CCAI&event=video_description)

- Catalan Number: [https://www.geeksforgeeks.org/program...](https://www.youtube.com/redirect?redir_token=aar_v7QaJ84wh0YqDH9_Yy7Kvkl8MTU4NzcwNTkxNUAxNTg3NjE5NTE1&q=https%3A%2F%2Fwww.geeksforgeeks.org%2Fprogram-nth-catalan-number%2F&v=GwVDCi8CCAI&event=video_description)

- Solving Linear Recurrence Relation - [https://www.hackerearth.com/practice/...](https://www.youtube.com/redirect?redir_token=aar_v7QaJ84wh0YqDH9_Yy7Kvkl8MTU4NzcwNTkxNUAxNTg3NjE5NTE1&q=https%3A%2F%2Fwww.hackerearth.com%2Fpractice%2Fnotes%2Fsolving-linear-recurrence-relation%2F&v=GwVDCi8CCAI&event=video_description)

- Recursive Subsequence: [https://www.spoj.com/problems/SEQ/](https://www.youtube.com/redirect?redir_token=aar_v7QaJ84wh0YqDH9_Yy7Kvkl8MTU4NzcwNTkxNUAxNTg3NjE5NTE1&q=https%3A%2F%2Fwww.spoj.com%2Fproblems%2FSEQ%2F&v=GwVDCi8CCAI&event=video_description)

- Divisible Subset: [https://www.codechef.com/problems/DIV...](https://www.youtube.com/redirect?redir_token=aar_v7QaJ84wh0YqDH9_Yy7Kvkl8MTU4NzcwNTkxNUAxNTg3NjE5NTE1&q=https%3A%2F%2Fwww.codechef.com%2Fproblems%2FDIVSUBS&v=GwVDCi8CCAI&event=video_description)

- Pigeonhole Principle: [https://www.geeksforgeeks.org/discret...](https://www.youtube.com/redirect?redir_token=aar_v7QaJ84wh0YqDH9_Yy7Kvkl8MTU4NzcwNTkxNUAxNTg3NjE5NTE1&q=https%3A%2F%2Fwww.geeksforgeeks.org%2Fdiscrete-mathematics-the-pigeonhole-principle%2F&v=GwVDCi8CCAI&event=video_description)

- SPOJ HOLI: [https://www.spoj.com/problems/HOLI/](https://www.youtube.com/redirect?redir_token=aar_v7QaJ84wh0YqDH9_Yy7Kvkl8MTU4NzcwNTkxNUAxNTg3NjE5NTE1&q=https%3A%2F%2Fwww.spoj.com%2Fproblems%2FHOLI%2F&v=GwVDCi8CCAI&event=video_description)

- The Grey Similar Code: [https://www.codechef.com/problems/GRAYSC](https://www.youtube.com/redirect?redir_token=aar_v7QaJ84wh0YqDH9_Yy7Kvkl8MTU4NzcwNTkxNUAxNTg3NjE5NTE1&q=https%3A%2F%2Fwww.codechef.com%2Fproblems%2FGRAYSC&v=GwVDCi8CCAI&event=video_description)

- Inclusion and Exclusion Principle: [https://www.geeksforgeeks.org/inclusi...](https://www.youtube.com/redirect?redir_token=aar_v7QaJ84wh0YqDH9_Yy7Kvkl8MTU4NzcwNTkxNUAxNTg3NjE5NTE1&q=https%3A%2F%2Fwww.geeksforgeeks.org%2Finclusion-exclusion-principle-and-programming-applications%2F&v=GwVDCi8CCAI&event=video_description)

- Sereja and LCM: [https://www.codechef.com/problems/SEALCM](https://www.youtube.com/redirect?redir_token=aar_v7QaJ84wh0YqDH9_Yy7Kvkl8MTU4NzcwNTkxNUAxNTg3NjE5NTE1&q=https%3A%2F%2Fwww.codechef.com%2Fproblems%2FSEALCM&v=GwVDCi8CCAI&event=video_description)

- Mathematical expectation and Bernoulli Trials: [https://www.codechef.com/wiki/tutoria...](https://www.youtube.com/redirect?redir_token=aar_v7QaJ84wh0YqDH9_Yy7Kvkl8MTU4NzcwNTkxNUAxNTg3NjE5NTE1&q=https%3A%2F%2Fwww.codechef.com%2Fwiki%2Ftutorial-expectation&v=GwVDCi8CCAI&event=video_description)

- OEIS: [http://oeis.org/](https://www.youtube.com/redirect?redir_token=aar_v7QaJ84wh0YqDH9_Yy7Kvkl8MTU4NzcwNTkxNUAxNTg3NjE5NTE1&q=http%3A%2F%2Foeis.org%2F&v=GwVDCi8CCAI&event=video_description)

More Question:

- SPOJ JULKA: [https://www.spoj.com/problems/JULKA/](https://www.youtube.com/redirect?redir_token=aar_v7QaJ84wh0YqDH9_Yy7Kvkl8MTU4NzcwNTkxNUAxNTg3NjE5NTE1&q=https%3A%2F%2Fwww.spoj.com%2Fproblems%2FJULKA%2F&v=GwVDCi8CCAI&event=video_description)

- Hair Counting Problem: [https://www.mathscareers.org.uk/artic...](https://www.youtube.com/redirect?redir_token=aar_v7QaJ84wh0YqDH9_Yy7Kvkl8MTU4NzcwNTkxNUAxNTg3NjE5NTE1&q=https%3A%2F%2Fwww.mathscareers.org.uk%2Farticle%2Fpigeonhole-principle%2F&v=GwVDCi8CCAI&event=video_description)

- Prime looking number: [https://www.cut-the-knot.org/arithmet...](https://www.youtube.com/redirect?redir_token=aar_v7QaJ84wh0YqDH9_Yy7Kvkl8MTU4NzcwNTkxNUAxNTg3NjE5NTE1&q=https%3A%2F%2Fwww.cut-the-knot.org%2Farithmetic%2Fcombinatorics%2FInclExclEx.shtml&v=GwVDCi8CCAI&event=video_description)

- Coupon collector problem: [https://www.youtube.com/watch?v=3mu47...](https://www.youtube.com/watch?v=3mu47FWEuqA)

- SPOJ FAVDICE: [https://www.spoj.com/problems/FAVDICE/](https://www.youtube.com/redirect?redir_token=aar_v7QaJ84wh0YqDH9_Yy7Kvkl8MTU4NzcwNTkxNUAxNTg3NjE5NTE1&q=https%3A%2F%2Fwww.spoj.com%2Fproblems%2FFAVDICE%2F&v=GwVDCi8CCAI&event=video_description)

- SPOJ FIBOSUM: [https://www.spoj.com/problems/FIBOSUM/](https://www.youtube.com/redirect?redir_token=aar_v7QaJ84wh0YqDH9_Yy7Kvkl8MTU4NzcwNTkxNUAxNTg3NjE5NTE1&q=https%3A%2F%2Fwww.spoj.com%2Fproblems%2FFIBOSUM%2F&v=GwVDCi8CCAI&event=video_description)

- Modulo Sum Codeforces: [https://codeforces.com/problemset/pro...](https://www.youtube.com/redirect?redir_token=aar_v7QaJ84wh0YqDH9_Yy7Kvkl8MTU4NzcwNTkxNUAxNTg3NjE5NTE1&q=https%3A%2F%2Fcodeforces.com%2Fproblemset%2Fproblem%2F577%2FB&v=GwVDCi8CCAI&event=video_description)

- Tavas and SaDDas Codeforces: [https://codeforces.com/problemset/pro...](https://www.youtube.com/redirect?redir_token=aar_v7QaJ84wh0YqDH9_Yy7Kvkl8MTU4NzcwNTkxNUAxNTg3NjE5NTE1&q=https%3A%2F%2Fcodeforces.com%2Fproblemset%2Fproblem%2F535%2FB&v=GwVDCi8CCAI&event=video_description)

- Summing Sums SPOJ: [https://www.spoj.com/problems/SUMSUMS/](https://www.youtube.com/redirect?redir_token=aar_v7QaJ84wh0YqDH9_Yy7Kvkl8MTU4NzcwNTkxNUAxNTg3NjE5NTE1&q=https%3A%2F%2Fwww.spoj.com%2Fproblems%2FSUMSUMS%2F&v=GwVDCi8CCAI&event=video_description)

- Marbles SPOJ: [https://www.spoj.com/problems/MARBLES/](https://www.youtube.com/redirect?redir_token=aar_v7QaJ84wh0YqDH9_Yy7Kvkl8MTU4NzcwNTkxNUAxNTg3NjE5NTE1&q=https%3A%2F%2Fwww.spoj.com%2Fproblems%2FMARBLES%2F&v=GwVDCi8CCAI&event=video_description)