CODEFORCES β
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Underdog_eagle's blog

All of the good tutorials found on codeforces

By **Underdog_eagle**, history, 11 days ago, 🇬🇧, ✏️

Here is the list of some of the good tutorials written by codeforces users :-
C++
- C++ Tricks by **Swift**
- C++ STL: map and set by **adamant**

Data Structures
- Algorithm Gym :: Data Structures by **DarthPrince**
- Everything about Segment Trees by **DarthPrince**
- Efficient and easy Segtree by **Al.Cash**
- A simple introduction to "Segment tree beats" by **jiry_2**
- Sack(DSU on trees) by **Arpa**
- SQRT Tree by **gepardo**
- Link-Cut tree by **adamant**

DP
- DP on Trees by **darkshadows**
- SOS DP by **usaxena95**
- Recurrent Sequences — Application of combinatorics in DP by **TooNewbie**
- Non-trivial DP tricks & Techniques by **zscoder**
- Digit DP by **flash_7**

Math
- Invariants and monovariants by **TooNewbie**
- Mobius Inversion by **Nisiyama_Suzune**
- Dirichlet convolution by **Nisiyama_Suzune**
- Fast convolution for 64-bit integers by **quasisphere**
- Tutorial for FFT/NTT Part 1 by **sidhant**
- Tutorial for FFT/NTT Part 2 by **sidhant**
- On Fast Fourier Transform by **adamant**
- Extended Eratosthenes Sieve by **lucyanna2018**

String Processing
- Z algorithm by **paladin8**
- Suffix Automata by **quasisphere**
- Transition between Z- and prefix functions by **adamant**
- Manacher's algorithm and code readability by **adamant**

Geometry
- Quaternion algebra and geometry by **adamant**
- Slope Trick by **zscoder**
- Nearest Neighbor Search by **P_Nyagolov**
- Convex Hull trick and Li chao tree by **adamant**
- Geometry: 2D points and lines by **Al.Cash**
- Geometry: Polygon algorithms by **Al.Cash**

Graphs
- 0-1 BFS by **dumbass**
- 2-SAT by **Swift**

Others
- Parallel Binary Search by **dumbass**
- General ideas and tricks by **adamant**

→ Pay attention

Before contest
Codeforces Round #461 (Div. 2)
5 days

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1	ACM-OI

If you know some good tutorial on codeforces which is not in this list and another list provided below please mention it in the comments I will add that in the list.

Another Similar List

Good Blog Post Resources about Algorithm and Data Structures

#tutorials

▲ **+261** ▼   ☆
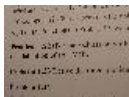
👤 Underdog_eagle   📅 11 days ago   💬 27

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11 days ago, # | ☆   ▲ **+11** ▼

I very enjoyed **Nisiyama_Suzune**'s tutorials on Mobius inversion and Dirchlet convolution.

http://codeforces.com/blog/entry/53925

http://codeforces.com/blog/entry/54150

newCEA

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11 days ago, # ^ | ☆   ▲ **0** ▼

Thanks added in the list.

→ Reply

Underdog_eagle

11 days ago, # | ☆   ← Rev. 2   ▲ **+22** ▼

And this good tutorials:

C++ Tricks

A short guide to suffix automata

Fast convolution for 64-bit integers

Tutorial on FFT/NTT—The tough made simple.(Part 1)

Make_You_Great_Again

Tutorial on FFT/NTT — The tough made simple.(Part 2)

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Thanks

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Underdog_eagle

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http://codeforces.com/blog/entry/13529

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prasoontrivedi

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I didn't know there is already a list on codeforces. Thanks

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Underdog_eagle

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Efficient and easy segment trees by AI.Cash

Link: http://codeforces.com/blog/entry/18051

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gKseni → Design competition for Codeforces T-shirts 💬

MemorySlices → Invitation to CodeChef February Long Challenge 2018! 💬

okaybody10 → How can I practice effectively? 💬

f2lk6wf90d → Find value of sum of a set of rows in a submatrix 💬

Shaad221B → Default Submission Language 💬

sinhashubham95 → Invitation to February Easy'18 on Hackerearth 💬

flash_7 → Burnside Lemma 💬

mn-9 → average value of a list in python 💬

Nerevar → Codeforces Beta Round #10 💬

AminAnvari → Segment Tree Problems 💬

ArtDitel → AIM Tech Mini Marathon 1 💬

Madiyar → __gcd 💬

moamen_ahmed → codeforces is very slow 💬

jinlifu1999 → Codeforces Round #460 (Div. 2) Editorial 💬

flash_7 → Digit DP 💬

Underdog_eagle → All of the good tutorials found on codeforces 💬

ivan100sic → User editorial for Codeforces Round #135 (Div. 2) 💬

A.GATZ → Geometry problem — bounding polygon with minimal area 💬

arjun95 → how to find total memory consumption of c/c++ program 💬

kardeepak → Suffix Arrays Help Please 💬

hissain.khan → 2D Segment tree — Implementation 💬

PraveenDhinwa → Invitation to ACM-ICPC Amritapuri Onsite Replay Contest on CodeChef 💬

fan_of_stoyan_malinin → http://codeforces.com/contest/13/problem/C 💬

sheaf

11 days ago, # | ☆   ▲ **+8** ▼

A recent SQRT-tree tutorial

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shubhiks1032

10 days ago, # | ☆   ▲ **+15** ▼
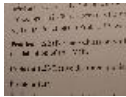
Mo's Algorithm on Trees

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Dird

10 days ago, # ^ | ☆   ▲ **0** ▼

Who is Mo

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newCEA

10 days ago, # ^ | ☆   ▲ **0** ▼

I believe O**O0OOOO00O0OOO0O00OOO0OO**

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oTo_ToT

9 days ago, # ^ | ☆   ▲ **+6** ▼

Mo's name in chinese is 莫涛, while
O**O0OOOO00O0OOO0O00OOO0OO** is 杜瑜皓 I
think it's not the same guy

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khokho

10 days ago, # | ☆   ▲ **+1** ▼

http://codeforces.com/blog/entry/44351

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Vladyslav

10 days ago, # | ☆   ▲ **+16** ▼

Almost every blog written by **adamant**.

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U_Square

10 days ago, # | ☆   ▲ **+4** ▼

DSU On Tree

Dynamic Programming Optimizations

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hmrockstar

9 days ago, # | ☆   ▲ **+1** ▼

this.

→ Reply

sbakic

9 days ago, # | ☆   ← Rev. 2   ▲ **+1** ▼

Although I have almost all tutorials in Favourites, it's better to have them sorted in
one place like this.

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sbakic

9 days ago, # | ☆   ▲ **+1** ▼

Counting Divisors of a Number

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JustInCase

9 days ago, # | ☆   ▲ **+4** ▼

Nearest Neighbor Search by **P_Nyagolov**

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Best one so far.
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P_Nyagolov

9 days ago, # | ☆ ▲ 0 ▼

Also add this TooNewbie's blog Recurrent Sequences — Application of combinatorics in DP (basics) http://codeforces.com/blog/entry/54154
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sameer_hack

7 days ago, # | ☆ ← Rev. 2 ▲ 0 ▼

I think you could add **"How to sweep like a Sir"** tutorial by **DanAlex**: http://codeforces.com/blog/entry/20377
→ Reply

SebasJM

7 days ago, # | ☆ ▲ 0 ▼

You can add this one too:

http://codeforces.com/blog/entry/57212
→ Reply

Death_Scythe

6 days ago, # | ☆ ▲ +1 ▼

(A little self-advertisement)

Some time ago I wrote geometry tutorials:
Geometry: 2D points and lines [Tutorial]
Geometry: Polygon algorithms
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Al.Cash

6 days ago, # | ☆ ▲ +1 ▼

Also, it would be better to organize the list by topic.
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Al.Cash

6 days ago, # ^ | ☆ ▲ 0 ▼

okay I'll do that.
→ Reply

Underdog_eagle

5 days ago, # | ☆ ▲ 0 ▼

http://codeforces.com/blog/entry/57338 DSU
→ Reply

wanna_be_blue

9 days ago, # | ☆ ▲ +5 ▼

6 days ago, # | ☆ ▲ 0 ▼