

Codeforces Online Judge

Prepared by: Mohamed Ayman

Algorithm Engineer at Valeo
Deep Learning Researcher and Teaching Assistant
at The American University in Cairo (AUC)
spring 2020





- sw.eng.MohamedAyman@gmail.com
- f facebook.com/cs.MohamedAyman
- in linkedin.com/in/cs-MohamedAyman
- github.com/cs-MohamedAyman
- codeforces.com/profile/Mohamed_Ayman

Codeforces Online Judge - Phase 3 GYM Contests

We will discuss in this lecture the following topics

1- Codeforces GYM Contests *** I	[25 contests]
2- Codeforces GYM Contests *** II	[15 contests]
3- GYM Codeforces Contests *** III	[30 contests]
4- GYM Codeforces Contests *** IV	[30 contests]
5- GYM Codeforces Contests *** V	[30 contests]









Section 2: Codeforces GYM Contests *** II

Section 3: Codeforces GYM Contests *** III

Section 4: Codeforces GYM Contests *** IV



Codeforces GYM Contests ***





[02] 2011-2012 Wroclaw Short Training Contest (contest 8)

Edinburgh Competition 2019

[04] 2015 Facebook Hacker Cup, Round 1

[05] 2010 Codeforces Beta Round #1 (training)

[06] 2012-2013 Тренировка СПбГУ В #1

[07] 2018 Facebook Hacker Cup, Qualification Round

[08] 2017 Facebook Hacker Cup, Qualification Round

[09] 2016 Facebook Hacker Cup, Qualification Round

[10] A20] Code Battle Final

[11] 2017 Spring Waterloo ACM Local Contest

[12] 2017 PSUT Coding Marathon

[13] 2017 Bangladesh National High School Programming Contest, NHSPC 2017

2011-2012 Waterloo Local Contest, 19 June, 2011

[15] 2012-2013 Waterloo Local Contest, 13 October, 2012

[16] 2020 Ateneo de Manila University DISCS PrO HS Division

https://codeforces.com/gym/100048

https://codeforces.com/gym/100049

https://codeforces.com/gym/102416

https://codeforces.com/gym/100579

https://codeforces.com/gym/100001

https://codeforces.com/gym/100070

https://codeforces.com/gym/101859

https://codeforces.com/gym/101222

https://codeforces.com/gym/100869

https://codeforces.com/gym/101604

https://codeforces.com/gym/101431

https://codeforces.com/gym/101401

https://codeforces.com/gym/101353

https://codeforces.com/gym/100009

https://codeforces.com/gym/100169









Codeforces GYM Contests *** |





[18] Fall 2019 ICPC-style Waterloo Local Contest

[19] 2018 Battle of Brains

[20] 2019 DISCS PrO High School Division

[21] Procon 2016

[22] Hello 2015 (Div.2)

[23] Local Contest

[24] 2016-2017 ACM-ICPC Pacific Northwest Regional Contest (Div. 2)

https://codeforces.com/gym/102458

https://codeforces.com/gym/102367

https://codeforces.com/gym/102062

https://codeforces.com/gym/102051

https://codeforces.com/gym/101059

https://codeforces.com/gym/100571

https://codeforces.com/gym/100004

















✓ Section 1: Codeforces GYM Contests *** I



Section 2: Codeforces GYM Contests *** II

Section 3: Codeforces GYM Contests *** III

Section 4: Codeforces GYM Contests *** IV



Codeforces GYM Contests *** II





[02] 2017 ACM Amman Collegiate Programming Contest

[03] 2015 ACM Arabella Collegiate Programming Contest

[04] JU Flash Contest

[05] 2018 PSUT Coding Marathon

[06] La Salle-PuiChingProgramming Challenge 培正喇沙編程挑戰賽2017

[07] La Salle-PuiChingProgramming Challenge 培正喇沙編程挑戰賽2016

[08] 2017 JUST Programming Contest 2.0

[09] Bangladesh Olympiad in Informatics 2016

[10] 2015 PSUT Coding Marathon

[11] 2014 Winter Programming School, Kharkiv, day 4. Junior league

[12] UBC Programming Contest 2019 (UBCPC 2019)

[13] Southern and Volga Russia Qualifier 2019-2020

[14] Semana i 2018

[15] 2018-2019 ACM-ICPC, NEERC, Southern Subregional Contest, Qualification Stage

[16] 2018 JUST Programming Contest 1.0

[17] 2016 PSUT Coding Marathon



https://codeforces.com/gym/101498

https://codeforces.com/gym/100676

https://codeforces.com/gym/102035

https://codeforces.com/gym/101798

https://codeforces.com/gym/101522

https://codeforces.com/gym/101521

https://codeforces.com/gym/101343

https://codeforces.com/gym/101212

https://codeforces.com/gym/100687

https://codeforces.com/gym/100376

https://codeforces.com/gym/102365

https://codeforces.com/gym/102348

https://codeforces.com/gym/101917

https://codeforces.com/gym/101911

https://codeforces.com/gym/101778











CODEFORCES Uva
Uva
Unline Judge
AtCoder

✓ Section 1: Codeforces GYM Contests *** I

H topcoder

- ✓ Section 2: Codeforces GYM Contests *** II
 - Section 3: Codeforces GYM Contests *** III

Section 4: Codeforces GYM Contests *** IV



Codeforces GYM Contests *** III





[02] ACM ICPC, Arabella Collegiate Programming Contest (2018)

[03] ACM ICPC, Amman Collegiate Programming Contest (2018)

[04] ACM ICPC, Damascus University Collegiate Programming Contest(2018)

[05] 2017 ACM Arabella Collegiate Programming Contest

[06] 2016-2017 ACM-ICPC, Egyptian Collegiate Programming Contest (ECPC 16)

[07] 2015-2016 ACM-ICPC Southwestern Europe Regional Contest (SWERC 15)

[08] 2016 ACM Amman Collegiate Programming Contest

[09] 2015 ACM Syrian Collegiate Programming Contest

2015-2016 ACM ICPC Baltic Selection Contest

[11] 2014-2015 ACM-ICPC Southwestern Europe Regional Contest (SWERC 14)

[12] 2015 ACM Amman Collegiate Programming Contest

[13] 2004-2005 ACM-ICPC East Central North America Regional Contest (ECNA 2004)

[14] 2014 KTU ACM ICPC Qualification Round

[15] ACM ICPC, Tishreen Collegiate Programming Contest (2017)

[16] 2018 ACM-ICPC, Universidad Nacional de Colombia Programming Contest

https://codeforces.com/gym/101982

https://codeforces.com/gym/101972

https://codeforces.com/gym/101810

https://codeforces.com/gym/101808

https://codeforces.com/gym/101350

https://codeforces.com/gym/101147

https://codeforces.com/gym/101128

https://codeforces.com/gym/101102

https://codeforces.com/gym/101086

https://codeforces.com/gym/100796

https://codeforces.com/gym/100783

https://codeforces.com/gym/100712

https://codeforces.com/gym/100651

https://codeforces.com/gym/100495

https://codeforces.com/gym/101915









Codeforces GYM Contests *** III





[18] 2010-2011 ACM-ICPC, NEERC, Northern Subregional Contest

[19] 2013-2014 ACM-ICPC Brazil Subregional Programming Contest

[20] 2017 ACM-ICPC, Universidad Nacional de Colombia Programming Contest

[21] 2013-2014 CT S01E10: 2013 ACM-ICPC ECPC (ECPC 2013)

[22] 2014-2015 ACM-ICPC Pacific Northwest Regional Contest (Div. 2)

[23] 2014 Nordic Collegiate Programming Contest

[24] 2014 Syrian Collegiate Programming Contest (SCPC 14)

[25] 2009-2010 ACM ICPC Southwestern European Regional Programming Contest

[26] 2013 KTU ACM ICPC Qualification Round

[27] UFBA Practice Session for Brazilian ICPC Regionals -2018

[28] 2015 AlBaath Collegiate Programming Contest

[29] 2015 Tishreen Collegiate Programming Contest

[30] 2019 ICPC Malaysia National

https://codeforces.com/gym/100623

https://codeforces.com/gym/100610

https://codeforces.com/gym/101473

https://codeforces.com/gym/101466

https://codeforces.com/gym/100283

https://codeforces.com/gym/101653

https://codeforces.com/gym/100502

https://codeforces.com/gym/100500

https://codeforces.com/gym/102470

https://codeforces.com/gym/100482

https://codeforces.com/gym/101962

https://codeforces.com/gym/100947

https://codeforces.com/gym/100935







CODEFORCES Uva

Uva

Unline Judge

AtCoder

✓ Section 1: Codeforces GYM Contests *** I

H topcoder

- ✓ Section 2: Codeforces GYM Contests *** II
- ✓ Section 3: Codeforces GYM Contests *** III

Section 4: Codeforces GYM Contests *** IV



Codeforces GYM Contests *** IV





[02] 2019, XII Samara Regional Intercollegiate Programming Contest

2018, XI Samara Regional Intercollegiate Programming Contest

[04] 2017, X Samara Regional Intercollegiate Programming Contest

[05] 2016, IX Samara Regional Intercollegiate Programming Contest

[06] 2015, Samara SAU ACM ICPC Quarterfinal Qualification Contest

[07] 2015, VIII Samara Regional Intercollegiate Programming Contest

[08] 2014, VII Samara Regional Intercollegiate Programming Contest

[09] 2014, Samara SAU ACM ICPC Quarterfinal Qualification Contest

2013, VI Samara Regional Intercollegiate Programming Contest

2013, Samara SAU ACM ICPC Quarterfinal Qualification Contest

[12] 2012, Samara SAU ACM ICPC Quarterfinal Qualification Contest

[13] 2012, V Samara Regional Intercollegiate Programming Contest

2016, Samara University ACM ICPC Quarterfinal Qualification Contest

[15] 2018 ECNU Campus Invitational Contest

[16] 2018 BACS Contest Replay

https://codeforces.com/gym/100952

https://codeforces.com/gym/102215

https://codeforces.com/gym/101755

https://codeforces.com/gym/101341

https://codeforces.com/gym/100971

https://codeforces.com/gym/100812

https://codeforces.com/gym/100694

https://codeforces.com/gym/100460

https://codeforces.com/gym/100488

https://codeforces.com/gym/100187

https://codeforces.com/gym/100247

https://codeforces.com/gym/100090

https://codeforces.com/gym/100030

https://codeforces.com/gym/101149

https://codeforces.com/gym/101848



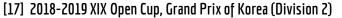






Codeforces GYM Contests *** IV





[18] UFPE Starters Final Try-Outs 2019

[19] 2018 USP-ICMC

[20] 2018 IME Tryouts

[21] IME Starters Try-outs 2018

[22] Tishreen-CPC 2018

[23] 2018 Southern Russia Open Championship -XII SFU Olympiad

[24] UFPE Starters Final Try-Outs 2018

[25] 2017 United Kingdom and Ireland Programming Contest (UKIEPC 2017)

[26] Higher Institute for Applied Sciences and Technology CPC 2016

[27] ICL 2016 (GP of Tatarstan)

[28] VIII Open Programming Championship of Kazan Federal University 2015

[29] 2015 USP-ICMC

[30] 2015 ICL, Finals, Div. 2

https://codeforces.com/gym/102058

https://codeforces.com/gym/102020

https://codeforces.com/gym/101875

https://codeforces.com/gym/101858

https://codeforces.com/gym/101804

https://codeforces.com/gym/101801

https://codeforces.com/gym/101790

https://codeforces.com/gym/101628

https://codeforces.com/gym/101606

https://codeforces.com/gym/101061

https://codeforces.com/gym/100942

https://codeforces.com/gym/100834

https://codeforces.com/gym/100733





CODEFORCES Unline Judge

AtCoder

✓ Section 1: Codeforces GYM Contests *** I

H topcoder

- ✓ Section 2: Codeforces GYM Contests *** II
- ✓ Section 3: Codeforces GYM Contests *** III
- ✓ Section 4: Codeforces GYM Contests *** IV



Codeforces GYM Contests ***





[02] KTU Programming Camp (Day 2)

[03] KTU Programming Camp (Day 3)

[04] KTU Programming Camp (Day 5)

[05] 2015 Google Code Jam Qualification Round (GC) 15 Qualification)

[06] 2014 Winter Programming School, Kharkiv, day 3 (A. Shmelev). Junior league

[07] 2014 Winter Programming School, Kharkiv, day 8 (Team Akai). Junior league

[08] 2014 Winter Programming School, Kharkiv, day 9 (V. Nespirtny). Junior league

[09] 2011-2012 Waterloo Local Contest, 24 September, 2011

[10] Innopolis Open, Final round, 2015-2016

[11] Innopolis Open 2019-2020, qualification, contest 1

[12] Innopolis Open 2019-2020, qualification, contest 2

[13] Innopolis Open, Elimination round 1, 2017-2018

[14] Innopolis Open, Elimination round 2, 2017-2018

[15] Innopolis Open, Second elimination round, 2018–2019

[16] Innopolis Open, First elimination round, 2018-2019

https://codeforces.com/gym/100735

https://codeforces.com/gym/100738

https://codeforces.com/gym/100739

https://codeforces.com/gym/100741

https://codeforces.com/gym/100662

https://codeforces.com/gym/100374

https://codeforces.com/gym/100382

https://codeforces.com/gym/100384

https://codeforces.com/gym/100008

https://codeforces.com/gym/100905

https://codeforces.com/gym/102436

https://codeforces.com/gym/102461

https://codeforces.com/gym/101627

https://codeforces.com/gym/101640

https://codeforces.com/gym/102052







Codeforces GYM Contests ***





[18] The 2019 "Orz Panda" Cup Programming Contest

[19] 2019 USP-ICMC

[20] HCW 19 Team Round (ICPC format)

[21] 2019 Facebook Hacker Cup, Qualification Round

[22] 2019, XI Annual Programming Contest by ESCOM-IPN

[23] 2019 ECNU Campus Invitational Contest

[24] The 14-th BIT Campus Programming Contest

[25] NCD 2019

[26] 2017 Hackatari Codeathon

[27] 2010-2011 VII International Zhautykov Olympiad

[28] 2009-2010 VI International Zhautykov Olympiad

[29] 2008-2009 V International Zhautykov Olympiad

[30] 2016 USP-ICMC

[31] Crypto Cup 1.0

[32] 2020 UP ACM Algolympics Elimination Round

https://codeforces.com/gym/102448

https://codeforces.com/gym/102309

https://codeforces.com/gym/102302

https://codeforces.com/gym/102279

https://codeforces.com/gym/102249

https://codeforces.com/gym/102218

https://codeforces.com/gym/102190

https://codeforces.com/gym/102174

https://codeforces.com/gym/102163

https://codeforces.com/gym/101257

https://codeforces.com/gym/100147

https://codeforces.com/gym/100143

https://codeforces.com/gym/100142

https://codeforces.com/gym/101063

https://codeforces.com/gym/100514









- ✓ Section 1: Codeforces GYM Contests *** I
- ✓ Section 2: Codeforces GYM Contests *** II
- ✓ Section 3: Codeforces GYM Contests *** III
- ✓ Section 4: Codeforces GYM Contests *** IV
- ✓ Section 5: Codeforces GYM Contests *** V







