

The 2019 Ukraine Northern Contest report

The 2019 ACM-ICPC Ukraine Northern Contest was on April 13, 2019.

This year **145** teams from **29** universities and colleges from **Chernihiv, Kyiv, Sumy and Zhytomyr** regions were registered in the contest, and **30** teams from schools. **166** teams participated in the contest.

An **e-judge** system used in contest. There were 2 groups of teams – from schools and universities.

This year sponsors of the Northern-Ukrainian Contest are: GlobalLogic, Intetics, Materialise, RingUkraine, Procom, Astound, Fozzy.



Universities

Success of task solving was varied, as shown in the following table and chart:

Task	A	B	C	D	E	F	G	H	I	J	K	L
% of success:	98	33	5	76	1	18	15	76	12	51	53	21



Below you can see a list of university teams ordered by place.

Place	Team	Solved	Penalty
1	KNU_MaxFun	12	1076
2	KNU_is_Not_Unix	11	676
3	KNU_TELLLA	11	720
4	KNU_Kektus	11	756
5	KNU_o(SOBACHA_BUDKA)	11	865
6	KNU_Cat_walked_on_the_keyboard	11	905
7	KNU_LookAtMyJellybeanToesies	11	1024
8	KNU_roflanKomanda	11	1089
9	KNU_OldButGold	10	590
10	KNU_Trip	10	708
11	KNU_Masters	10	928
12	KNU_Khobasky	10	1092
13	NTUU_KPI_VRTeam	10	1145
14	KNU_empty_set_element	10	1184
15	NTUU_KPI_ExtremeLabor	10	1185
16	KNU_PGTF	10	1389
17	KNU_ToTheMars	9	1376
18	NAU_R.E.D._Team_2.0	8	608
19	NaUKMA_VamFant	8	966
20	KNU_Trapdoor	8	1093
21	KNU_Apoolaz	8	1192
22	ZSTU_GeekMen	8	1195
23	NAU_MVD	7	371
24	NaUKMA_TeterivV	7	412
25	ZSTU_4yxx	7	472
26	NaUKMA_force_push	7	509
27	KNU_Typhoon	7	688
28	KNU_IZI_WIN_ZA_O(n3)	7	836
29	NaUKMA_JJSCPY	7	1122
30	KNU_Dementia_and_courage	7	1129
31	NUBiP_Treesome	7	1197
32	ZSTU_Predator'sSolution	6	460
33	NaUKMA_PKM	6	573
34	NaUKMA_lovespark	6	593
35	NUBIP_Enigma	6	631
36	SSU_up2olymp	6	725
37	ZSTU_FYCH	6	788
38	KNU_KUBIKMAN	6	845
39	NAU_SUBtitle	6	918
40	NAU_Triod_and_diod	6	919

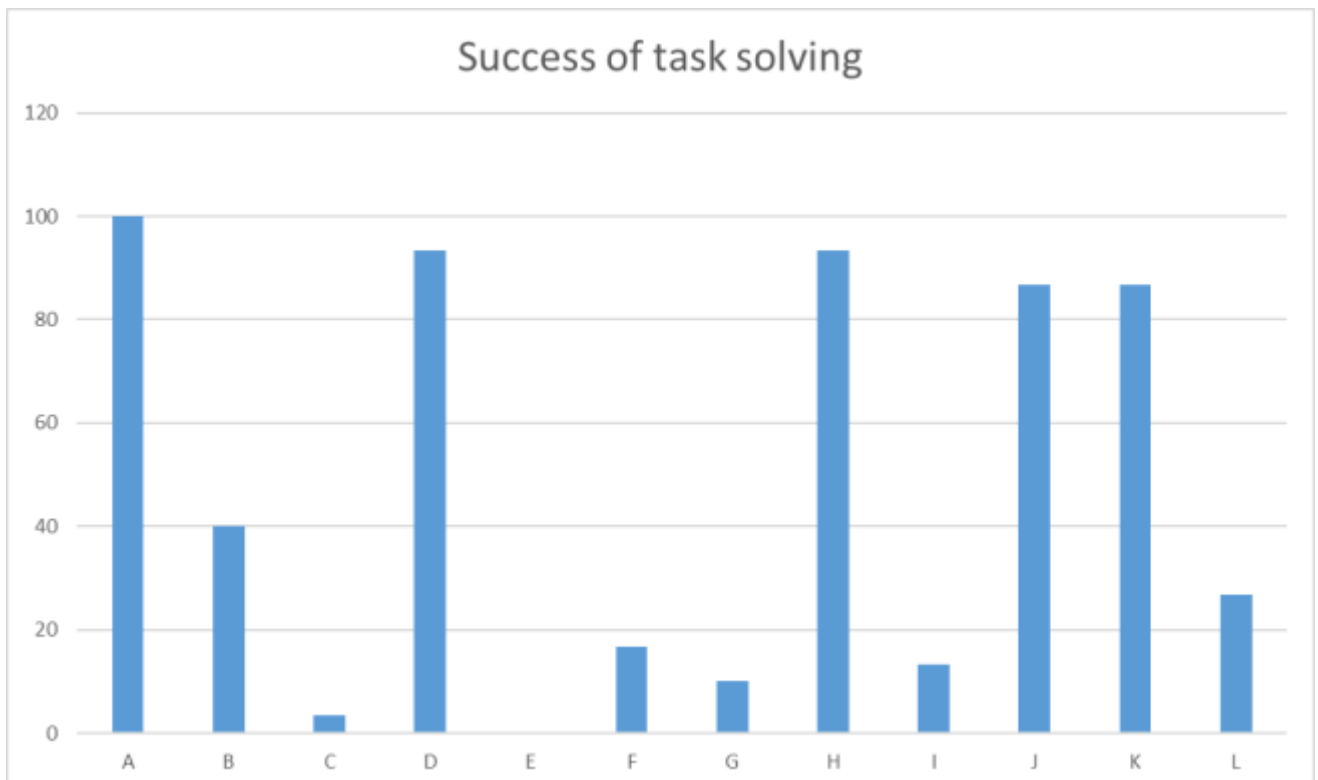
Place	Team	Solved	Penalty
41	KNU_LTS	6	1030
42	KNU_ABL	6	1071
43	c_CCTE_MOAdron	5	260
44	NUBIP_DEV	5	309
45	KNUTE_Innocent_boys	5	330
46	ZhSU_Prometey	5	374
47	ZhSU_MEMory	5	413
48	NAU_double_trouble	5	451
49	ZSTU_United_Coding	5	490
50	KNU_NoLimits	5	492
51	KNU_FIT_PST	5	500
52	MITI_Hedgehogs	5	604
53	ZhSU_Nightmare	5	680
54	NaUKMA_ipz	5	684
55	ZSTU_P1V0t	5	706
56	NUFT_Small_Bang	5	742
57	c_OMC_TeamWithoutFantasy	5	764
58	CNUT_ShotoUmnoe	5	826
59	ZhSU_Error404	5	838
60	KUBG_withKey	5	842
61	MITI_NeKrasivye	5	849
62	CNPU_FM19	4	272
63	c_BCIEL_1TBS	4	273
64	c_CCTE_Link	4	288
65	NAU_72	4	306
66	ZhSU_bit_packet	4	376
67	KNUTE_Indomitable	4	438
68	KNU_FIT_PP_2	4	483
69	DUT_Exception	4	493
70	KNU_RIM	4	512
71	MITI_DarkCoders	4	522
72	MITI_Moony_Pandas	4	587
73	c_CCTE_Pancakes	4	624
74	KNUCA_NEXT	4	721
75	CNUT_NatusVincere	4	740
76	ZSTU_DBR	4	851
77	KNUTE_New_name	4	918
78	ZhSU_SHS	3	148
79	c_KISIT_DRIM	3	187
80	NUBIP_IPZ	3	241
81	c_KISIT_CedZip	3	255

Place	Team	Solved	Penalty
82	ZhSU_“IVA”	3	312
83	DUT_Bugs	3	314
84	CNUT_Sombrero	3	331
85	DUT_Universal	3	346
86	ZhSU_Silent	3	353
87	DUT_Rocket	3	359
88	NTU	3	400
89	ZhSU_MARVEL	3	413
90	DUT_Error404	3	423
91	USFSU_Taxmans	3	445
92	DUT_The_lucky_ones	3	496
93	CNUT_KoZaL	3	524
94	c_KISIT_Slime	3	525
95	KNU_KISIT	3	590
96	NUBIP_KIAtors	3	610
97	KNUCA_NsD	3	612
98	CNUT_HelpPlease	3	732
99	c_KISIT_brigada	3	935
100	KUBG_BOSS	2	55
101	ZSTU_Programing_wizards	2	105
102	NUFT_fist	2	155
103	ZhSU_Dreamteam	2	216
104	ZhSU_Tarasoft_Corp	2	223
105	ZhSU_Ghost_Recon	2	276
106	c_KISIT_functionX	2	322
107	c_OMC_VP	2	328
108	KNU_SandNewts	2	346
109	KNUTE_CommandA	2	413
110	c_CCTE_Infinity	2	418
111	c_KISIT_CrackTheCode	2	492
112	c_KISIT_Hearth_Walkers	2	546
113	c_KISIT_students	2	769
114	ZSTU_Waffles	1	5
115	NUFT_Small_gang	1	7
116	KNUCA_Snatch	1	9
117	NUBiP_Cool_Programmers	1	14
118	KNUCA_OmegaConduction	1	15
119	SSU_CrazyFrog’s	1	22
120	CNUT_Umbrella	1	34
121-122	SSU_PM_1	1	44

Place	Team	Solved	Penalty
121-122	ZhSU_INFORM	1	44
123	ZhSU_Rikardo	1	52
124	ZNAU_IT	1	59
125	c_KPK_pvfp	1	98
126	ZhSU_Natus_Vincere	1	104
127	ZhSU_Breeze	1	142
128	c_RIPT_Team01	1	148
129	c_RIPT_Team03	1	161
130	CNUT_EvilGeniuses	1	226
131	NUBiP_AVD	1	321
132	c_RIPT_Team02	1	418
133-136	c_KISIT_Bobrsteam	0	0
133-136	c_KISIT_OFFDE	0	0
133-136	c_Pagrocol_team01	0	0
133-136	CNUT_Contrast	0	0
Total solved		619	

Schools

Task	A	B	C	D	E	F	G	H	I	J	K	L
% of success:	100	40	3	93	0	17	10	93	13	87	87	27



Following table contain ordered list of school teams.

Place	Team	Solved	Penalty
1	s_KPNL145_aAa	11	1019
2	s_ZMCNTTUM_Construktiv	10	867
3	s_KLNZ_31M	10	1019
4	s_KPNL145_Abort	8	548
5	s_KPNL145_Tangerines	8	644
6	s_CPMS12_Mozgoruky_3	7	533
7	s_KPNL145_Nevertheless	7	625
8	s_PLKPI_Testostrogen	7	741
9	s_KPNL145_MAC	6	316
10	s_KPNL145_Oleh	6	365
11	s_KPNL145_EasyDlyaPapizi	6	538
12	s_KPNL145_BEES	6	567
13	s_PLKPI_Modern_Crusaders	6	1080
14	s_ZMCNTTUM_coder	5	252
15	s_FastivTEC_JumpUp	5	295
16	s_ZMCNTTUM_scratch	5	347
17	s_ES_Chernihiv_Hackersva	5	394
18	s_UPML_Ultrazvuk	5	404
19	s_TLCK_TripleCoders_dtl	5	446
20	s_BCschool12_Alexandria	5	507
21	s_Collegium#11_ITm	5	514
22	s_FastivTEC_Quarks	5	536
23	s_SSB12_territory12	5	650
24	s_ES15_Nizhyn_CyberCats	5	974
25	s_ZMCNTTUM_Scoabee	4	118
26	s_TLCK_Programmasters	4	361
27	s_School3_Exception	4	437
28	s_ES15_Nizhyn_Alpha	3	629
29	s_FastivTEC_GreenBox	2	359
30	s_PLKPI_Enigma	1	65
Total solved		171	

Places within each university

TARAS SHEVCHENKO KYIV NATIONAL UNIVERSITY

Place	Absolutely place	Team	Total solved	Penalty
1	1	KNU_MaxFun	12	1076
2	2	KNU_is_Not_Unix	11	676
3	3	KNU_TELLLA	11	720
4	4	KNU_Kektus	11	756
5	5	KNU_o(SOBACHA_BUDKA)	11	865
6	6	KNU_Cat_walked_on_the_keyboard	11	905
7	7	KNU_LookAtMyJellybeanToesies	11	1024
8	8	KNU_roflanKomanda	11	1089
9	9	KNU_OldButGold	10	590
10	10	KNU_Trip	10	708
11	11	KNU_Masters	10	928
12	12	KNU_Khobasky	10	1092
13	14	KNU_empty_set_element	10	1184
14	16	KNU_PGTF	10	1389
15	17	KNU_ToTheMars	9	1376
16	20	KNU_Trapdoor	8	1093
17	21	KNU_Apoolaz	8	1192
18	27	KNU_Typhoon	7	688
19	28	KNU_IZI_WIN_ZA_O(n3)	7	836
20	30	KNU_Dementia_and_courage	7	1129
21	38	KNU_KUBIKMAN	6	845
22	41	KNU_LTS	6	1030
23	42	KNU_ABL	6	1071
24	50	KNU_NoLimits	5	492
25	51	KNU_FIT_PST	5	500
26	68	KNU_FIT_PP_2	4	483
27	70	KNU_RIM	4	512
28	95	KNU_KISIT	3	590
29	108	KNU_SandNewts	2	346

NATIONAL TECHNICAL UNIVERSITY OF UKRAINE "KIEV POLYTECHNIC INSTITUTE":

Place	Absolute place	Team	Total solved	Penalty
1	13	NTUU_KPI_VRTeam	10	1145
2	15	NTUU_KPI_ExtremeLabor	10	1184

NATIONAL AVIATION UNIVERSITY

Place	Absolute place	Team	Total	Penalty
1	18	NAU_R.E.D._Team_2.0	8	608
2	23	NAU_MVD	7	371
4	39	NAU_SUBtitle	6	918
3	40	NAU_Triod_and_diod	6	919
5	48	NAU_double_trouble	5	451
6	65	NAU_72	4	306

NATIONAL UNIVERSITY OF KYIV-MOHYLA ACADEMY

Place	Absolute place	Team	Total	Penalty
1	19	NaUKMA_VamFant	8	966
2	24	NaUKMA_TeterivV	7	412
3	26	NaUKMA_force_push	7	509
4	29	NaUKMA_JJSCPYP	7	1122
5	33	NaUKMA_PKM	6	573
6	34	NaUKMA_lovespark	6	593
7	54	NaUKMA_ipz	5	684

ZHYTOMYR INSTITUTE OF ENGINEERING AND TECHNOLOGY

Place	Absolute place	Team	Total	Penalty
1	22	ZSTU_GeekMen	8	1195
2	25	ZSTU_4yxx	7	472
3	32	ZSTU_Predator'sSolution	6	460
4	37	ZSTU_FYCH	6	788
5	49	ZSTU_United_Coding	5	490
6	55	ZSTU_P1V0t	5	706
7	76	ZSTU_DBR	4	851
8	101	ZSTU_Programing_wizards	2	105
9	114	ZSTU_Waffles	1	5

NATIONAL UNIVERSITY OF LIFE AND ENVIRONMENTAL SCIENCES OF UKRAINE

Place	Absolute place	Team	Total	Penalty
1	31	NUBiP_Treesome	7	1197
2	35	NUBIP_Enigma	6	631
3	44	NUBIP_DEV	5	309
4	80	NUBIP_IPZ	3	241
5	96	NUBIP_KIAtors	3	610
6	117	NUBiP_Cool_Programmers	1	14
7	131	NUBiP_AVd	1	321

SUMY STATE UNIVERSITY

Place	Absolute place	Team	Total	Penalty
1	36	SSU_up2olymp	6	725
2	119	SSU_CrazyFrog's	1	22
3	121-122	SSU_PM_1	1	44

KIEV NATIONAL UNIVERSITY OF TRADE AND ECONOMICS

Place	Absolute place	Team	Total	Penalty
1	45	KNUTE_Innocent_boys	5	330
2	67	KNUTE_Indomitable	4	438
3	77	KNUTE_New_name	4	918
4	109	KNUTE_CommandA	2	413

ZHYTOMYR STATE UNIVERSITY NAMED AFTER IVAN FRANKO

Place	Absolute place	Team	Total	Penalty
1	46	ZhSU_Prometey	5	374
2	47	ZhSU_MEMory	5	413
3	53	ZhSU_Nightmare	5	680
4	59	ZhSU_Error404	5	838
5	66	ZhSU_bit_packet	4	376
6	78	ZhSU_SHS	3	148
7	82	ZhSU "IVA"	3	312
8	86	ZhSU_Silent	3	353
9	89	ZhSU_MARVEL	3	413
10	103	ZhSU_Dreamteam	2	216
11	104	ZhSU_Tarasoft_Corp	2	223
12	105	ZhSU_Ghost_Recon	2	276
13	121-122	ZhSU_INFORM	1	44
14	123	ZhSU_Rikardo	1	52
15	126	ZhSU_Natus_Vincere	1	104
16	127	ZhSU_Breeze	1	142

MILITARY INSTITUTE OF TELECOMMUNICATIONS AND INFORMATION

Place	Absolute place	Team	Total	Penalty
1	52	MITI_Hedgehogs	5	604
2	61	MITI_NeKrasivye	5	849
3	71	MITI_DarkCoders	4	522
4	72	MITI_Moony_Pandas	4	587

NATIONAL UNIVERSITY OF FOOD TECHNOLOGIES

Place	Absolute place	Team	Total	Penalty
1	56	NUFT_Small_Bang	5	742
2	102	NUFT_fist	2	155
3	115	NUFT_Small_gang	1	7

CHERNIHIV NATIONAL UNIVERSITY OF TECHNOLOGY

Place	Absolute place	Team	Total	Penalty
1	58	CNUT_ShotoUmnoe	5	826
2	75	CNUT_NatusVincere	4	740
3	84	CNUT_Sombrero	3	331
4	93	CNUT_KoZaL	3	524
5	98	CNUT_HelpPlease	3	732
6	120	CNUT_Umbrella	1	34
7	130	CNUT_EvilGeniuses	1	226
8	133-136	CNUT_Contrast	0	0

BORYS GRINCHENKO KYIV UNIVERSITY

Place	Absolute place	Team	Total	Penalty
1	60	KUBG_withKey	5	842
2	100	KUBG_BOSS	2	55

CHERNIHIV NATIONAL PEDAGOGICAL UNIVERSITY

Place	Absolute place	Team	Total	Penalty
1	62	CNPU_FM19	4	272

STATE UNIVERSITY OF TELECOMMUNICATIONS

Place	Absolute place	Team	Total	Penalty
1	69	DUT_Exception	4	493
2	83	DUT_Bugs	3	314
3	85	DUT_Universal	3	346
4	87	DUT_Rocket	3	359
5	90	DUT_Error404	3	423
6	92	DUT_The_lucky_ones	3	496

KYIV NATIONAL UNIVERSITY OF CONSTRUCTION AND ARCHITECTURE

Place	Absolute place	Team	Total	Penalty
1	74	KNUCA_NEXT	4	721
2	97	KNUCA_NsD	3	612
3	116	KNUCA_Snatch	1	9
4	118	KNUCA_OmegaConduction	1	15

NATIONAL TRANSPORT UNIVERSITY

Place	Absolute place	Team	Total	Penalty
1	88	NTU	3	400

UNIVERSITY OF THE STATE FISCAL SERVICE OF UKRAINE

Place	Absolute place	Team	Total	Penalty
1	91	USFSU_Taxmans	3	445

ZHYTOMYR NATIONAL AGROECOLOGICAL UNIVERSITY

Place	Absolute place	Team	Total	Penalty
1	124	ZhNAU_IT	1	59

Colleges

KYIV COLLEGE OF COMPUTER TECHNOLOGIES AND ECONOMICS OF NATIONAL AVIATION UNIVERSITY NATIONAL UNIVERSITY

Place	Absolute place	Team	Total	Penalty
1	43	c_CCTE_MOAdron	5	260
2	64	c_CCTE_Link	4	288
3	73	c_CCTE_Pancakes	4	624
4	110	c_CCTE_Infinity	2	418

OPTICAL AND MECHANICAL COLLEGE OF TARAS SHEVCHENKO KYIV NATIONAL UNIVERSITY

Place	Absolute place	Team	Total	Penalty
1	57	c_OMC_TeamWithoutFantasy	5	764
2	107	c_OMC_VP	2	328

BERDYCHIV COLLEGE OF INDUSTRY, ECONOMICS AND LAW

Place	Absolute place	Team	Total	Penalty
1	63	c_BCIEL_1TBS	4	273

KNEU KYIV COLLEGE OF INFORMATION SYSTEMS AND TECHNOLOGIES

Place	Absolute place	Team	Total	Penalty
1	79	c_KISIT_DRIM	3	187
2	81	c_KISIT_CedZip	3	255
3	94	c_KISIT_Slime	3	525
4	99	c_KISIT_brigada	3	935
5	106	c_KISIT_functionX	2	322
6	111	c_KISIT_CrackTheCode	2	492
7	112	c_KISIT_Hearth_Walkers	2	546
8	113	c_KISIT_students	2	769
9	133-136	c_KISIT_Bobrsteam	0	0
10	133-136	c_KISIT_OFF-SIDE	0	0

KYIV PROFESSIONAL COLLEGE OF MILITARY AND PHYSICAL TRAINING

Place	Absolute place	Team	Total	Penalty
1	125	c_KPK_pvfp	1	98

RZHYSCHIV INDUSTRIAL TEACHER-TRAINING TECHNICAL SECONDARY SCHOOL

Place	Absolute place	Team	Total	Penalty
1	128	c_RIPT_Team01	1	148
2	129	c_RIPT_Team03	1	161
3	132	c_RIPT_Team02	1	418

PRYLUKY AGROTECHNICAL COLLEGE

Place	Absolute place	Team	Total	Penalty
1	133-136	c_Pagrocol_team01	0	0

Coordinators of the contest are grateful to all participants and colleagues. Special thanks for cooperation to **Sergey Petrov** (Sumy) and **Volodymyr Mesyura** (Vinnytsia National Technical University).

Program of the contest was as follows:

Date/time	Action
April, 13, 8:30 – 9:10	Teams registration
April, 13, 9:10 – 9:30	Opening procedure
April, 13, 9:30 – 9:45	Sortition
April, 13, 10:00 – 15:00	Main contest
April, 13, 15:10 – 16:00	Tasks solution discussion
April, 13, 15:10 – 16:00	Awarding procedure

This year Northern contest coordinators are:

Olena Glazunova, Oleksii Tkachenko, Sergiy Sylantyev, National University of Life and Environmental Sciences

Sergey Petrov, Sumy State University

Vitalii Bondarenko, Taras Shevchenko Kyiv National University

Oksana Lytvun, Borys Grinchenko Kyiv University

Sergey Zhukovskiy, Zhytomyr State University named after Ivan Franko

Viacheslav Suprun, Chernihiv State Technological University