

## The 2018 Ukraine Northern Contest report

The 2018 ACM-ICPC Ukraine Northern Contest was on April 21, 2018.

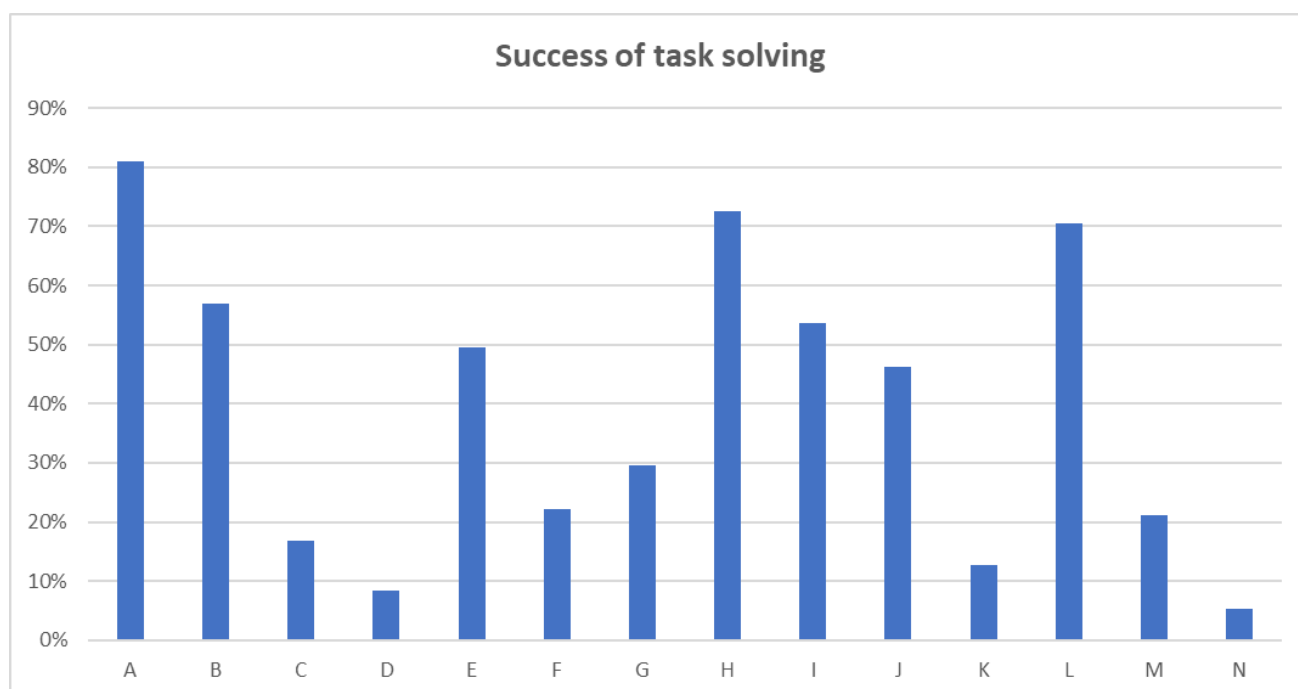
This year **130** teams from **24** universities and colleges from **Kyiv, Zhytomyr, Chernihiv and Sumy** regions were registered in the contest. **117** teams participated in the contest.

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

### 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	M	N
% of success:	81	57	17	8	49	22	29	73	54	46	13	71	21	5



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

Place	Team	Solved	Penalty
<b>1</b>	KNU_OlyaWakeUp	14	978
<b>2</b>	KNU_CornerCase	14	1112
<b>3</b>	KNU_COPYPASTE	14	1319
<b>4</b>	KNU_DzaDza	14	1363
<b>5</b>	KNU_ACMR_LOVERS	13	954
<b>6</b>	KNU_3snape	13	1472
<b>7</b>	KNU_Podpivas	12	930
<b>8</b>	NTUU_KPI_Challenge_Accepted	12	1148
<b>9</b>	KNU_MagiC++	12	1173
<b>10</b>	KNU_EjudgeCrashers	12	1175

11	NTUU_KPI_encore	12	1364
12	KNU_Triskelion	12	1784
13	NTUU_KPI_IASA18	11	864
14	KNU_Cat_walked_on_the_keyboard	11	1022
15	KNU_SorryVinnytsia	11	1277
16	NaUKMA_singularCurves	11	1616
17	KNU_baguvix	10	773
18	KNU_PfromDA	10	1148
19	KNU_InfoPsy	9	811
20	ZSTU_PifagorTeam	9	1084
21	KNU_NTSA_RULEZ	9	1654
22	UNIT_Factory_Hitchhackers*	9	1683
23	KNU_Cyberkek	8	613
24	ZSTU_4yx-4yx	8	614
25	KNU_Pure_Virtual	8	864
26	KNU_CLAP	8	989
27	KNU_team_pro	8	1006
28	NPU_GoldenGoose	8	1054
29	NUBiP_Enigma	8	1231
30	KNU_angry_roosters	8	1428
31	KNUTE_Innocent	7	664
32	ZSTU_Undefined	7	868
33	ZSTU_GeekMen	7	1102
34	NaUKMA_1	7	1129
35	KNU_Rover	7	1163
36	USFSU_Taxman1	7	1187
37	NaUKMA_Otbytysh	7	1232
38	KNU_X3	6	701
39	KNU_HELL	6	843
40	CNUT_R2D2	6	1137
41	KISIT_Dev	6	1156
42	ZSTU_FYCH	6	1265
43	KUBG_NewTeam1	5	603
44	ZhSU_3Bist	5	673
45	NDU_Romashka++	5	823
46	ZhSU_bit_packet	5	843
47	ZhSU_cactus	5	952
48	NUBiP_TimeLess	5	1084
49	NUFT_Small_Bang	4	344
50	KNEU_Beetles	4	418
51	KNU_Munin	4	434

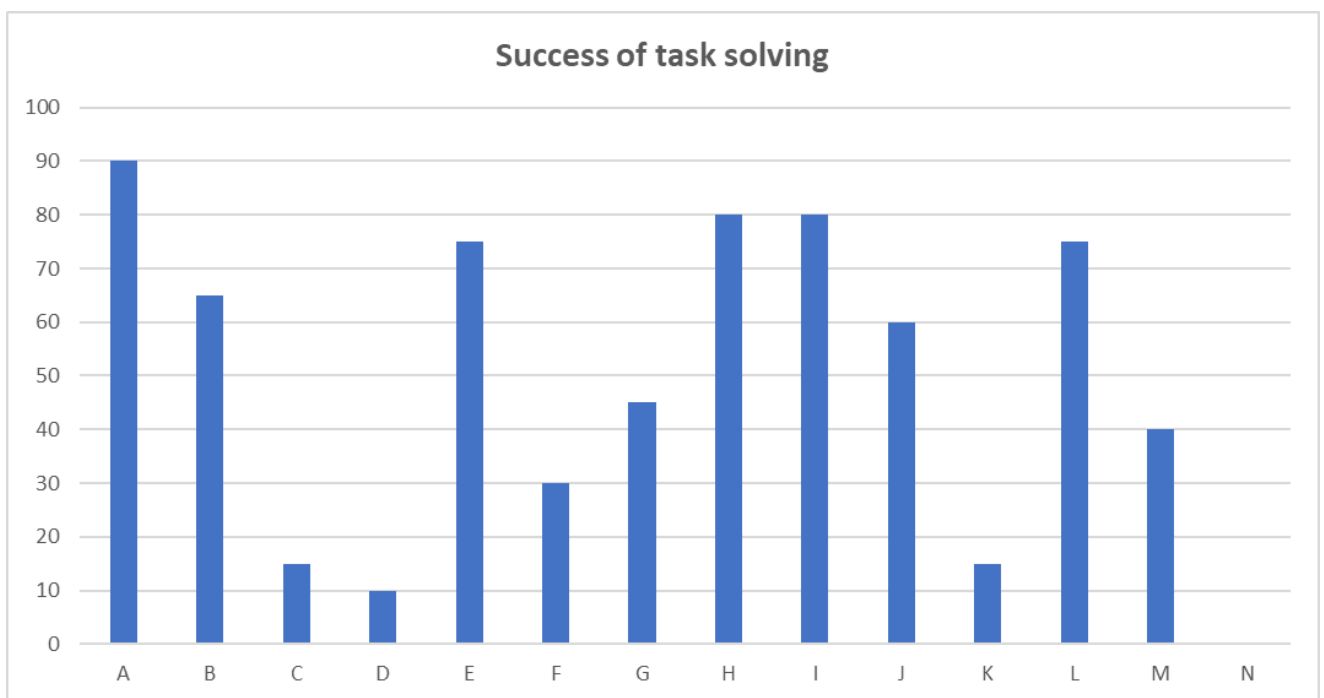
52	KNEU_Phoenix	4	464
53	USFSU_Taxman2	4	493
54	CNUT_polietilenbenzol	4	599
55	NUBiP_Impuls	4	649
56	ZSTU_Vaiz	4	676
57	KUBG_encryptors	4	695
58	NUBiP_IPZx	4	780
59	NUBiP_Brainstorm	4	819
60	ZSTU_SQUAD	3	254
61	ZSTU_Goteam	3	356
62	NUBiP_ferrets	3	383
63	KNUBA_DevelopersTears	3	405
64	ZSTU_CyberGorynych	3	438
65	NUFT_Mandelbrot's_children	3	451
66	ZhSU_Sky.NET	3	513
67	ZhMI_team1	3	543
68	NUBiP_127_0_0_1	3	714
69	NTUU_KPI_Cyan_Taipans	2	193
70	CNUT_Cyberwolf	2	219
71	CNUT_DreamTeam	2	345
72	CNUT_NSD	2	385
73	ZhSU_Aristokraty	2	476
74	KNUBA_AnimeDevelopers	2	513
75	KNU_NoLimits	2	531
76	ZSTU_Cyber_Cat	1	31
77	NUFT_Small_gang	1	82
78	BCENR_IMVaZ	1	87
79	NAU Linux Forever	1	133
80	KISIT_void	1	185
81	NUBiP_BrainHub2018	1	204
82	ZhSU_Kicinka	1	290
83-95	ChNPU_FM-18	0	0
83-95	CNUT_Begin..end	0	0
83-95	KNUTE_Brainy_team	0	0
83-95	KNUBA_HejlsbergsChildren	0	0
83-95	NAU Mighty penguins	0	0
83-95	NUFT_Hoffmann	0	0
83-95	NaUKMA_2	0	0
83-95	ZSTU_PHP_coder	0	0
83-95	ZSTU_GBK	0	0
83-95	ZhSU_dream_team	0	0

<b>83-95</b>	ZhSU_CodeVirus	0	0
<b>83-95</b>	ZhSU_d4ck	0	0
<b>83-95</b>	ZhSU_magic fox	0	0
	<b>Total solved</b>	<b>519</b>	

\* Out of competition

### Schools

Task	A	B	C	D	E	F	G	H	I	J	K	L	M	N
% of success:	90	65	15	10	75	30	45	80	80	60	15	75	40	0



Following table contain ordered list of school teams.

Place	Team	Solved	Penalty
<b>6</b>	s_UPML_KlassB	13	1076
<b>8</b>	s_KPNL145_Chrykryn	12	861
<b>16</b>	s_KPNL145_Khomarycks	11	873
<b>18</b>	s_KPNL145_BabyDragon	11	1032
<b>20</b>	s_UPML_Team10	11	1326
<b>23</b>	s_KPNL145_Wannabe	10	1098
<b>25</b>	s_HighSchoolZhytomyr_Max_team	9	492
<b>32</b>	s_DTL_Lemon	8	706
<b>33</b>	s_High School Zhytomyr_Ter12	8	706
<b>34</b>	s_High School Zhytomyr_Lic25	8	766
<b>48</b>	s_KPNL145_Masters	6	625

<b>50</b>	sCollegium#11_IT-Com	6	706
<b>60</b>	s_DTL_Juniors2	5	964
<b>67</b>	s_DTL_Juniors1	4	539
<b>69</b>	sES_Chernihiv_Hackers	4	602
<b>76</b>	s_High School Zhytomyr_Screch	3	289
<b>82</b>	s_DTL_Beginners	3	496
<b>87</b>	s_HighSchoolZhytomyr_Promenada	2	158
<b>102</b>	s_Fastiv TEC_LEADERS	1	214
<b>103</b>	s_CNUT_Maestro	1	289
	<b>Total solved</b>	<b>136</b>	

### Places within each university

#### TARAS SHEVCHENKO KYIV NATIONAL UNIVERSITY

Place	Absolutely place	Team	Total solved	Penalty
1	1	KNU_OlyaWakeUp	14	978
2	2	KNU_CornerCase	14	1112
3	3	KNU_COPYPASTE	14	1319
4	4	KNU_DzaDza	14	1363
5	5	KNU_ACMR_LOVERS	13	954
6	6	KNU_3snape	13	1472
7	7	KNU_Podpivas	12	930
8	9	KNU_MagiC++	12	1173
9	10	KNU_EjudgeCrashers	12	1175
10	12	KNU_Triskelion	12	1784
11	14	KNU_Cat_walked_on_the_keyboard	11	1022
12	15	KNU_SorryVinnitsia	11	1277
13	17	KNU_baguvix	10	773
14	18	KNU_PfromDA	10	1148
15	19	KNU_InfoPsy	9	811
16	21	KNU_NTSA_RULEZ	9	1654
17	22	UNIT_Factory_Hitchhackers	9	1683
18	23	KNU_Cyberkek	8	613
19	25	KNU_Pure_Virtual	8	864
20	26	KNU_CLAP	8	989
21	27	KNU_team_pro	8	1006
22	30	KNU_angry_roosters	8	1428
23	35	KNU_Rover	7	1163
24	38	KNU_X3	6	701
25	39	KNU_HELL	6	843
26	51	KNU_Munin	4	434
27	75	KNU_NoLimits	2	531

**NATIONAL TECHNICAL UNIVERSITY OF UKRAINE "KIEV POLYTECHNIC INSTITUTE":**

Absolutely place	Place	Team	Total solved	Penalty
8	1	NTUU_KPI_Challenge_Accepted	12	1148
11	2	NTUU_KPI_encore	12	1364
13	3	NTUU_KPI_IASA18	11	864
69	4	NTUU_KPI_Cyan_Taipans	2	193

**NATIONAL UNIVERSITY OF LIFE AND ENVIRONMENTAL SCIENCES OF UKRAINE**

Place	Absolute place	Team	Total	Penalty
1	29	NUBiP_Enigma	8	1231
2	48	NUBiP_TimeLess	5	1084
3	55	NUBiP_Impuls	4	649
4	58	NUBiP_IPZx	4	780
5	59	NUBiP_Brainstorm	4	819
6	62	NUBiP_ferrets	3	383
7	68	NUBiP_127_0_0_1	3	714
8	81	NUBiP_BrainHub2018	1	204
9	29	NUBiP_Enigma	8	1231

**NATIONAL UNIVERSITY OF FOOD TECHNOLOGIES**

Place	Absolute place	Team	Total	Penalty
1	49	NUFT_Small_Bang	4	344
2	65	NUFT_Mandelbrot's_children	3	451
3	77	NUFT_Small_gang	1	82
4	83-95	NUFT_Hoffmann	0	0

**KYIV NATIONAL UNIVERSITY OF CONSTRUCTION AND ARCHITECTURE**

Place	Absolute place	Team	Total	Penalty
1	63	KNUBA_DevelopersTears	3	405
2	74	KNUBA_AnimeDevelopers	2	513
3	83-95	KNUBA_HejlsbergsChildren	0	0

**VADYM GETMAN KIEV NATIONAL ECONOMIC UNIVERSITY**

Place	Absolute place	Team	Total	Penalty
1	50	KNEU_Beetles	4	418
2	52	KNEU_Phoenix	4	464

**NATIONAL AVIATION UNIVERSITY**

Place	Absolute place	Team	Total	Penalty
1	79	NAU Linux Forever	1	133
2	83-95	NAU Mighty penguins	0	0

### NATIONAL UNIVERSITY OF KYIV-MOHYLA ACADEMY

Place	Absolute place	Team	Total	Penalty
1	16	NaUKMA_singularCurves	11	1616
2	34	NaUKMA_1	7	1129
3	37	NaUKMA_Otbytysh	7	1232
4	83-95	NaUKMA_2	0	0

### KIEV NATIONAL UNIVERSITY OF TRADE AND ECONOMICS

Place	Absolute place	Team	Total	Penalty
1	31	KNUTE_Innocent	7	664
2	83-95	KNUTE_Brainy_team	0	0

### BORYS GRINCHENKO KYIV UNIVERSITY

Place	Absolute place	Team	Total	Penalty
1	43	KUBG_NewTeam1	5	603
2	57	KUBG_encryptors	4	695

### UNIVERSITY OF THE STATE FISCAL SERVICE OF UKRAINE

Place	Absolute place	Team	Total	Penalty
1	36	USFSU_Taxman1	7	1187
2	53	USFSU_Taxman2	4	493

### NATIONAL PEDAGOGICAL UNIVERSITY NAMED AFTER M.P. DRAGOMANOV

Place	Absolute place	Team	Total	Penalty
1	28	NPU_GoldenGoose	8	1054

### CHERNIHIV NATIONAL UNIVERSITY OF TECHNOLOGY

Place	Absolute place	Team	Total	Penalty
1	40	CNUT_R2D2	6	1137
2	54	CNUT_polietilenbenzol	4	599
3	70	CNUT_Cyberwolf	2	219
4	71	CNUT_DreamTeam	2	345
5	72	CNUT_NSD	2	385
6	83-95	CNUT_Begin..end	0	0

### NIZHYN GOGOL STATE UNIVERSITY

Place	Absolute place	Team	Total	Penalty
1	45	NDU_Romashka++	5	823

**CHERNIHIV NATIONAL PEDAGOGICAL UNIVERSITET**

Place	Absolute place	Team	Total	Penalty
1	83-95	ChNPU_FM-18	0	0

**ZHYTOMYR INSTITUTE OF ENGINEERING AND TECHNOLOGY**

Place	Absolute place	Team	Total	Penalty
1	20	ZSTU_PifagorTeam	9	1084
2	24	ZSTU_4yx-4yx	8	614
3	32	ZSTU_Undefined	7	868
4	33	ZSTU_GeekMen	7	1102
5	42	ZSTU_FYCH	6	1265
6	56	ZSTU_Vaiz	4	676
7	60	ZSTU_SQUAD	3	254
8	61	ZSTU_Goteam	3	356
9	64	ZSTU_CyberGorynych	3	438
10	76	ZSTU_Cyber_Cat	1	31
11-12	83-95	ZSTU_PHP_coder	0	0
11-12	83-95	ZSTU_GBK	0	0

**ZHYTOMYR STATE UNIVERSITY NAMED AFTER IVAN FRANKO**

Place	Absolute place	Team	Total	Penalty
1	44	ZhSU_3Bist	5	673
2	46	ZhSU_bit_packet	5	843
3	47	ZhSU_cactus	5	952
4	66	ZhSU_Sky.NET	3	513
5	73	ZhSU_Aristokraty	2	476
6	82	ZhSU_Kicinka	1	290
7-10	83-95	ZhSU_dream_team	0	0
7-10	83-95	ZhSU_CodeVirus	0	0
7-10	83-95	ZhSU_d4ck	0	0
7-10	83-95	ZhSU_magic fox	0	0

**S.P. KOROLOV ZHYTOMYR MILITARY INSTITUTE**

Place	Absolute place	Team	Total	Penalty
1	67	ZhMI_team1	3	543

**Colleges****KNEU KYIV COLLEGE OF INFORMATION SYSTEMS AND TECHNOLOGIES**

Place	Absolute place	Team	Total	Penalty
1	41	KISIT_Dev	6	1156
2	80	KISIT_void	1	185



**BOYARKA COLLEGE OF ECOLOGY AND NATURAL RESOURCES**

Place	Absolute place	Team	Total	Penalty
1	78	BCENR_IMVaZ	1	87

**Out of competition****UKRAINIAN NATIONAL IT FACTORY**

Place	Absolute place	Team	Total	Penalty
1	22	UNIT_Factory_Hitchhackers	9	1683

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, 21, 8:30 – 9:10	Teams registration
April, 21, 9:10 – 9:30	Opening procedure
April, 21, 9:30 – 9:45	Sortition
April, 21, 10:00 – 15:00	Main contest
April, 21, 15:10 – 16:00	Tasks solution discussion
April, 21, 15:10 – 16:00	Awarding procedure

This year Northern contest coordinators are:

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

**Sergiy Sylantyev**, Vadym Getman Kyiv National Economic University

**Oleksandr Halkin**, Taras Shevchenko Kyiv National University

**Oksana Lytvun, Vladyslav Yaskevych**, Borys Grinchenko Kyiv University

**Sergey Zhukovskiy**, Zhytomyr State University named after Ivan Franko

**Sergii Zaitsev, Viacheslav Suprun**, Chernihiv State Technological University