

ICPC 2021 Regional

Jakarta Site

20 - 21 November 2021

Technical Briefing



Schedule

Z1 Nov

Technical Briefing
Practice Session

Contest

Online Competition



2021 ICPC Asia Jakarta Regional Contest is an invigilated online contest.

Please follow the COVID-19 regulations according to your country.

The host urges every team to adhere to sportsmanship and to comply with the competition rules in the best way possible.

Deviation from the requirements (unless permitted by the host) are subject to disqualification.

Workstation



Each team can only work with one workstation

- Only one display, keyboard, and mouse can be used
- Additional workstation is to be followed in the next section

Workstation

Approved software

- Browser
 - Latest version of Safari, Firefox, Microsoft Edge, or Google Chrome
- IDE and Text Editors
 - Code::Blocks, Eclipse, Textpad, Notepad++, Dev-C++, Sublime Text, Visual Studio Code, Netbeans IDE, vi, vim, emacs, TextEdit, Geany, IntelliJ IDEA, CLion, Visual Studio
- Compilers and Interpreters
 - gcc, g++, javac, python2, python3
- Debugger
 - gdb, DDD, valgrind, VisualVM, Visual Studio Debugger
- Calculator
- Spreadsheet software
 - Microsoft Excel, LibreOffice Calc, OpenOffice Calc, Numbers
- Application to open PDF files
- Latest version of Zoom client

Workstation



The installed software must not have major modifications (including IDE extensions) from the default installation.

 In particular, contestants must not use pre-recorded macros on their IDE or text editors.

Using unapproved software without prior permission by the host is a violation of the contest rules.

Hardware/network/electrical failures are the responsibility of the team and will not be grounds for extra time.

Secondary Workstation



Each team may use an additional workstation

- · Only one display, keyboard, and mouse can be used
- Substitute for printed papers

Only can be used for navigating through DOMjudge

- · View problem statements, scoreboard, etc.
- View "printed" files
- View Team Reference Document

Zoom



Each team will be connected to one Zoom session, with only the team and their proctor.

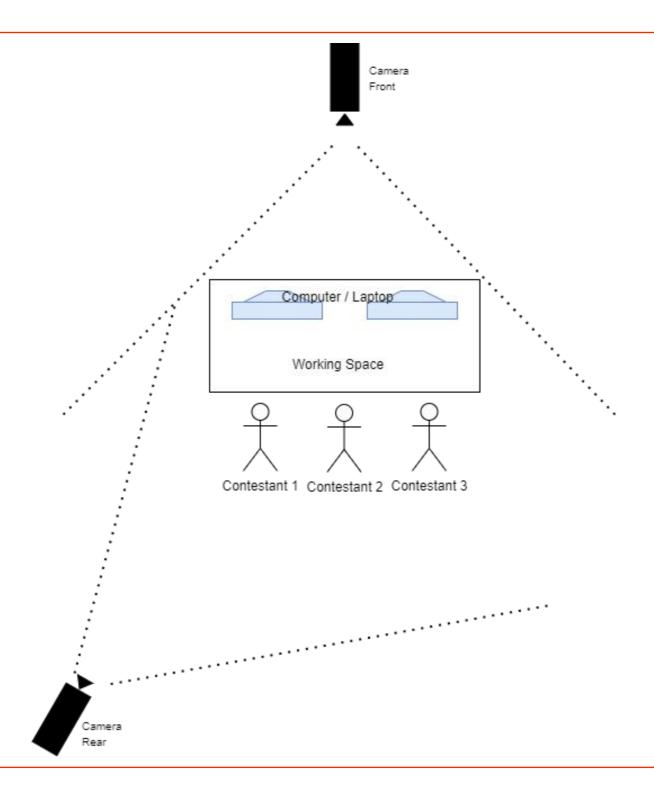
- Each workstation's screen content must be streamed.
- Additionally, each team has to stream 2 camera feeds:
 - Front: Camera positioned in front of the contestants, which shows contestants' faces.
 - Rear & Room: Camera positioned on the back right or left side of the contestants which shows the team and its surrounding area.
- Contestants must not use alter the camera feed (including virtual backgrounds).

The session will be recorded

Zoom



Technical Briefing



Contest Platform



DOMjudge

an automated judge system

http://competition.binus.ac.id/contest/

Judge Machine



Hardware	Intel Cascade Lake CPU@3.0 GHz			
Operating System	Ubuntu 20.04 LTS			
Compiler (IDE)	GCC 9.3.0			
	Java 11.0.11			
Interpreter	Python 3.8.5			
	Python 2.7.18			

Judge's Responses



CORRECT, accepted solution.

• The corresponding problem is considered solved.

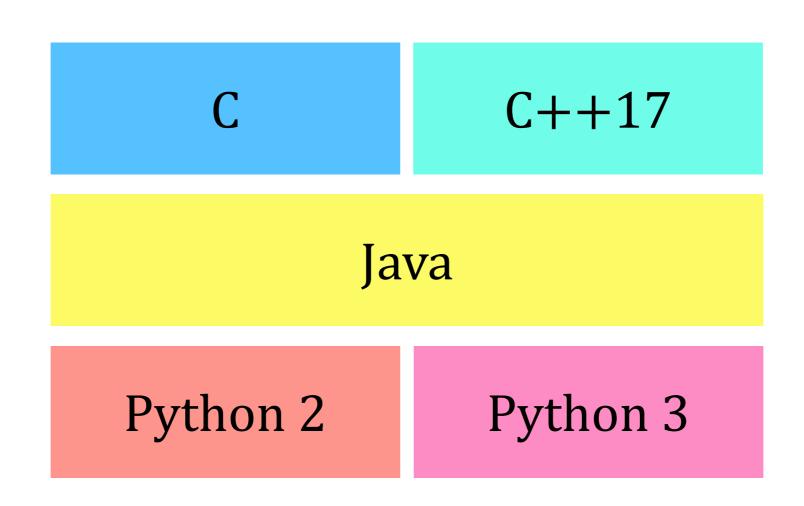
COMPILER-ERROR
MEMORY-LIMIT
TIMELIMIT
RUN-ERROR

- do not forget to return 0 at the end of your main function (C/C++)
- missing or different return statement may result in RUN-ERROR

NO-OUTPUT WRONG-ANSWER

Language





We **DO NOT** guarantee all the problems can be solved within time-limit constraint with **Python** even though the same algorithm is used

Language



The compile/run options used for each of the languages are:

C -x c -Wall -static -pipe -DONLINE_JUDGE -DDOMJUDGE -lm

C++17 -x c++ -std=c++17 -Wall -O2 -static -pipe -DONLINE_JUDGE -DDOMJUDGE

Java -XX:+UseSerialGC -Xss64m -DONLINE_JUDGE -DDOMJUDGE

Python 2 N/A

Python 3 N/A

DOMJudge

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RANK	TEAM	SCORE	A	В	С	D	E	F	G	н	ı	J	K	L	М	PA	РВ	PC	PD
1	rapel :'(17 26161	1299 1 try	1306 1 try	5685 1 try	1312 1 try	1316 1 try	1325 1 try	1336 1 try	1349 1 try	1364 1 try	1370 1 try	1376 1 try	1384 1 try	1391 1 try	1083 1 try	1084 1 try	1089 1 try	1092 1 try

Submissions								
time	problem	lang	result					
22:03	PD	CPP	COMPILER-ERROR					
21:57	PD	CPP	CORRECT					
21:57	PD	CPP	CORRECT					
21:57	PD	CPP	TIMELIMIT					
21:57	PD	СРР	RUN-ERROR					
21:57	PD	СРР	TIMELIMIT					
21:56	PC	рү3	RUN-ERROR					
21:56	РВ	РУЗ	NO-OUTPUT					

Clarifications									
time	from		to	subject	text				
21:59	Jury		rapel :'(problem PA	Yes				
21:58	Jury		8 Jury		rapel :'(General issue	No		
	Clarification Requests								
				Trioquotio					
time	from	to	subject	text					
21:59	rapel :'(Jury	problem PA	Can Emma do several ta	ask at once?				
21:54	rapel :'(Jury	General issue	Can we use 2nd comput	ter to code?				
request clarification									

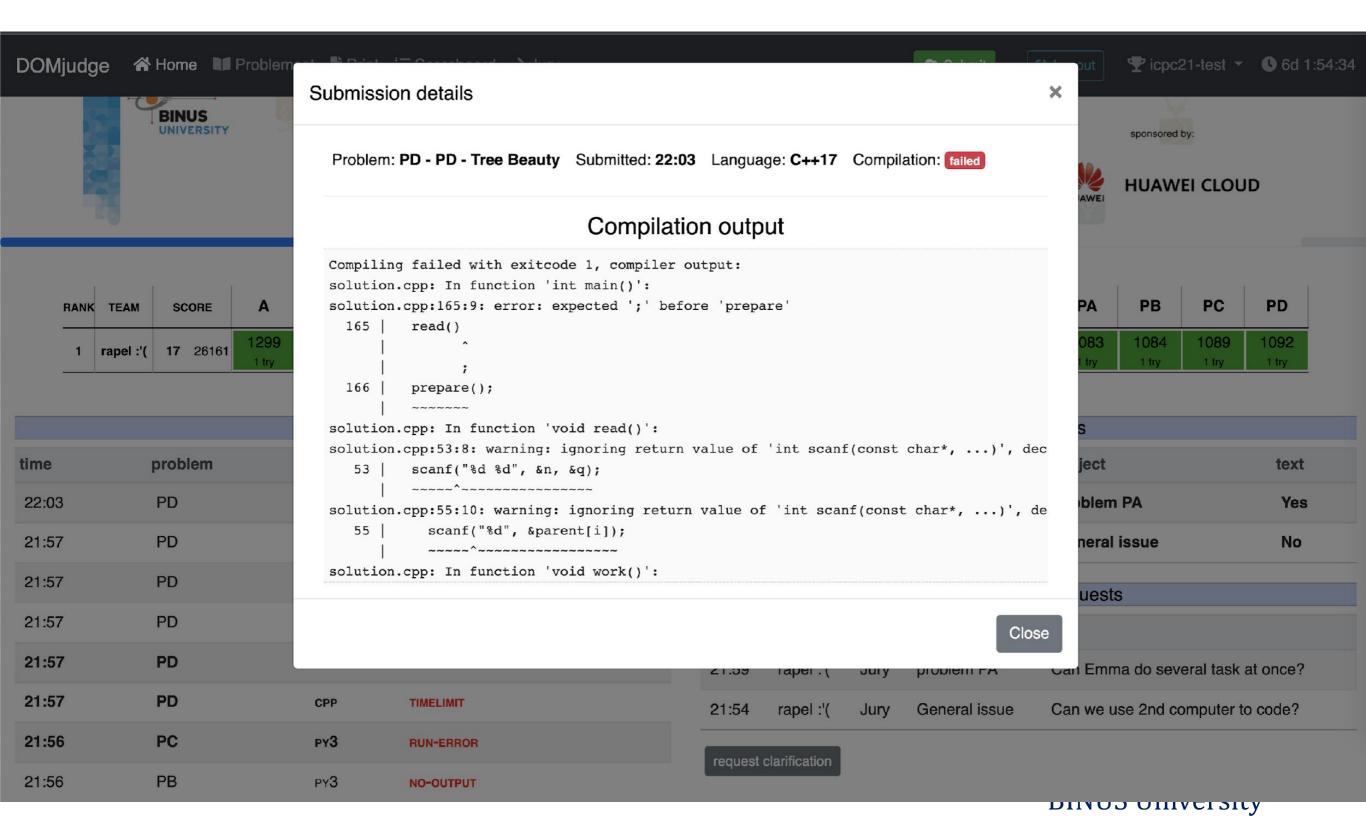
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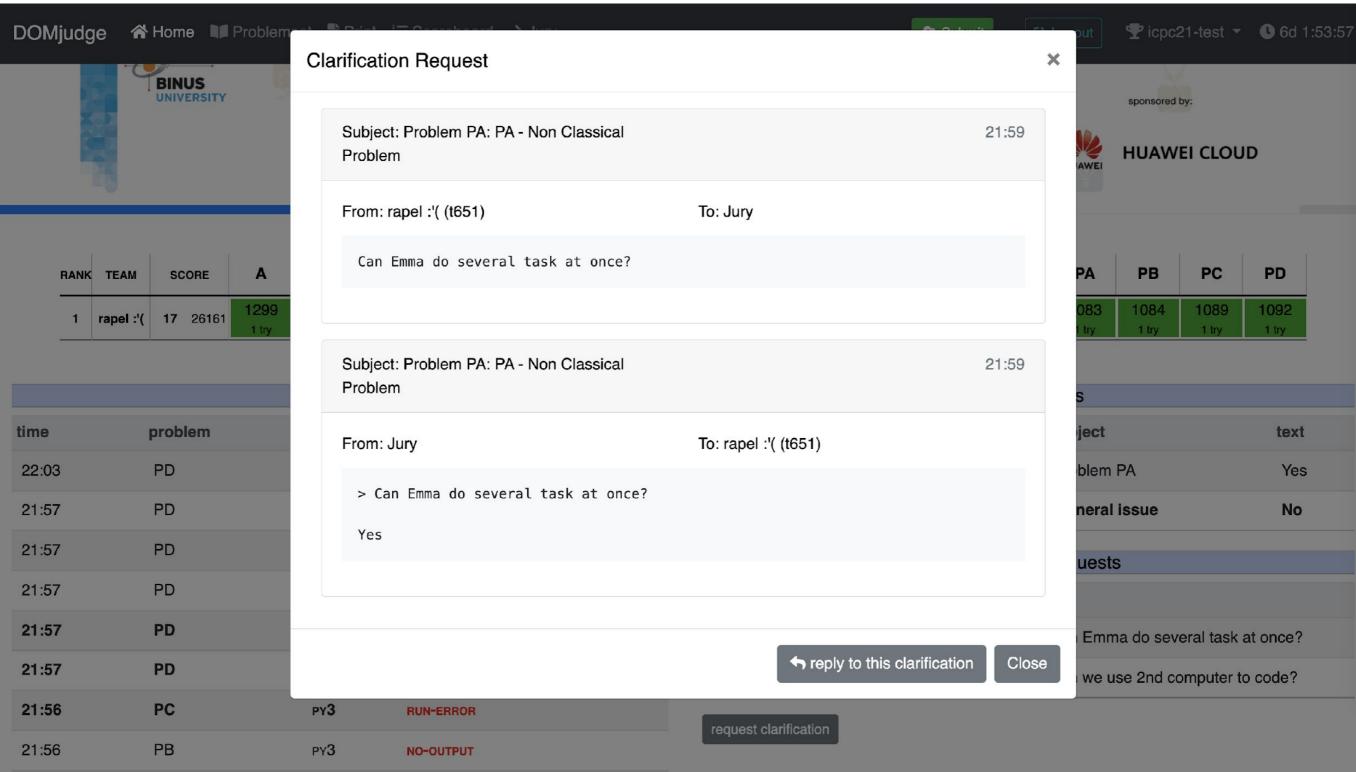


DOMJudge

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Documentation



The URL for C++, Java, Python 2, and Python 3 documentation will be provided at the start of the contest.

Problem Set



There are 13 problems (A to M).



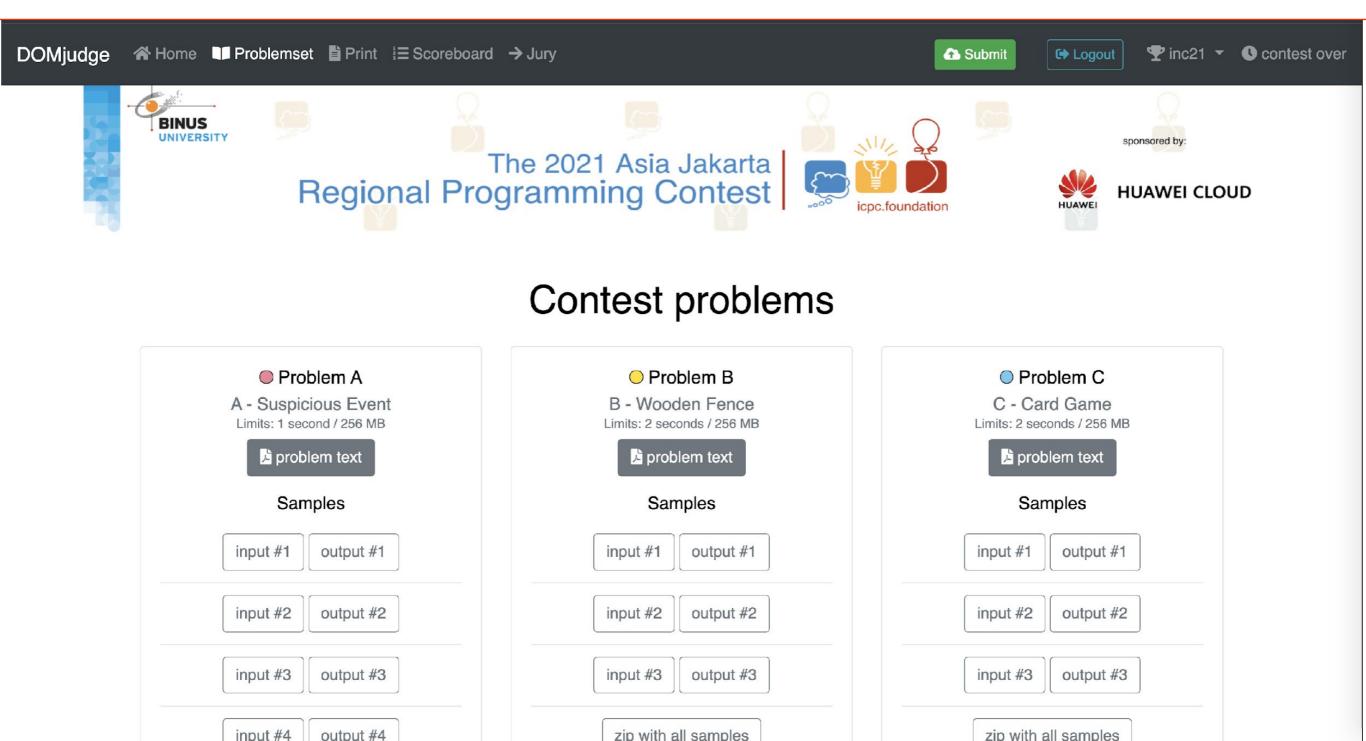
Time-Limit and Memory-Limit for each problem is available by clicking the "Problemset" tab in DOMjudge.

Time-Limit and Memory-Limit

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Contest Site



Each team may have the following items on the contest site

- Blank papers or graph papers
- Stationeries (pen, pencils, rulers, etc.)
- Hard-copy dictionary
- Snack, food, drink, or medicine
- Mascots, soft toys

Please turn off all communications device.

Leaving the contest site requires a prior permission from the proctor/committee

Contest Preparation



Teams must be ready in their setup at least **20 minutes** before the start of the contest.

- Including joining the Zoom session
- Practice session starts at 13:00 (GMT+7) today
- Contest starts at 09:00 (GMT+7) tomorrow

The DOMjudge credentials will be provided in the Zoom session by the proctor **15 minutes** before the start of the contest

• Upon the receiving the credentials, contestants must log in to DOMjudge using the provided credentials, and notify the proctors for any problems

Contest Preparation



Upon login to DOMjudge, the countdown timer to the start of the contest will be displayed on the top-right corner.

 Contestants must not have any other applications open and must not interact with their workstation anymore

When the timer reaches 0

- The contest begins without further instruction
- Contestants can start working

Working Directory



Contestants must prepare an empty directory before the start of the contest, and use only this directory for the contest.

Contestants must not use any materials written before the start of the contest.

Contestants must not access the internet other than DOMjudge, and the provided Zoom and language documentation.

Team Reference Document



Each team may have a Team Reference Document

- The document may contain up to 25 pages of reference materials, letter or A4 size, with pages numbered in the upper right-hand corner and your university name and team name printed in the upper left-hand corner.
- The softcopy of the Team Reference Document must be submitted before the start of the practice session.
- Approved Team Reference Document will be available for use during the contest in DOMjudge.
- The document will be located in "Print Job" Section.

Team Reference Document has been converted so that the texts are not copyable



Contestants may send any text files to DOMjudge for "printing" by clicking the "Print" tab in DOMjudge

- Upon sending the file, the contestant will receive a token (randomly-generated 8 uppercase characters) that only shown for 10 seconds for that file.
- All printed files by the team are available in the "Home" tab.

Approved Team Reference Document will be available as a printed file at the start of the contest.

• The token of this file will be given to the contestants together with the DOMjudge credential.





Print source

Source file: (Filename should have no spaces)

No file selected

Browse

Language:

Select a language

Print code



Print source

File is successfully submitted. You have 10 seconds to copy the token below.

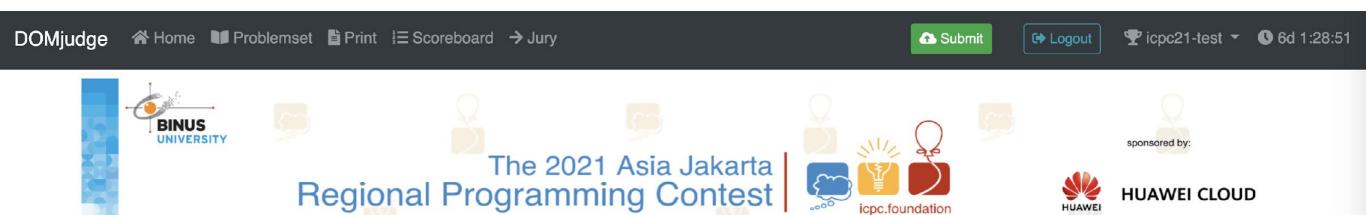
UXPGFKXE

Close



DOMjudge	☆ Home ■ Prob	lemset 🚦 Prii	nt i≡ Scoreboard → Jury	
16:26	РВ	CPP	WRONG-ANSWER	
16:25	РВ	СРР	CORRECT	
16:25	РВ	СРР	CORRECT	
16:24	PA	СРР	WRONG-ANSWER	
16:24	PA	СРР	WRONG-ANSWER	
16:24	PA	СРР	CORRECT	
16:24	PA	СРР	CORRECT	
16:24	PA	СРР	CORRECT	
		Print Jo	oh	
time	filename	1 33	action	
22:29	A.cpp		view file	
22:29	template.cpp		view file	
22:25	solution.cpp		view file	
22:16	rafael_wa.cpp	i	view file	
22:04	TRD-KTH-D.p	df	view file	





View Source

loken:		
View code		



View source This is a View Source for team rapeladmin

```
Font size: 12 v
       //pragma
       //#pragma GCC optimize("Ofast")
       //#pragma GCC optimize("unroll-loops")
        #include <bits/stdc++.h>
        #define YOU using
        #define DONT namespace
        #define SAY std
   10
   11
        YOU DONT SAY;
   12
   13
        typedef long long ll;
        typedef unsigned long long ull;
   15 typedef pair<int,int> pii;
        typedef pair<ll,ll> pll;
   17
       typedef pair<ll,int> pli;
   18 typedef pair<int,ll> pil;
       typedef vector<int> vi;
        typedef vector<pii> vii;
        typedef vector<pll> vll;
                                                                                                                             DINUS UIIIVEISILY
```

Balloons



Unfortunately, there is no balloon this year.



Clarification



Team may submit clarification requests to the judges via DOMJudge.

- ✓ It's better to submit only questions related to the problem set.
- ✓ But, if you have any doubt related to the contest (workstation, proctoring rule), you also can ask it via clarification.
- ✓ Question related to the other logistics can be addressed directly to the committee/proctor.

If the judges agree that an ambiguity or error exists in the problem set, a clarification will be issued to all teams.

Scoring



Teams are ranked according to:

i. Most number of problems solved,

if (i) ties, then:

ii. Least TOTAL TIME,

if (i) and (ii) tie, then:

iii. Earliest time of submittal of the last accepted problem.

Scoring



TOTAL TIME is the sum of the time consumed for each solved problem.

The time consumed for a solved problem is:

- the time elapsed from the beginning of the contest to the submittal of the first accepted solution.
- 20 penalty minutes for every previously rejected solution (except COMPILER-ERROR) for that problem.

There is no time consumed for a problem that is not solved.

Scoreboard



Scoreboard is available in DOMjudge by clicking the "Scoreboard" tab.

• The secondary workstation is also allowed to view the scoreboard.

Scoreboard will not be updated in the last 30 mins of the practice session

All teams still get responses from judges.

Scoreboard will not be updated in the last hour of the contest

• All teams still get responses from judges.

Public scoreboard

http://competition.binus.ac.id/contest/

Fair Play



You might be disqualified for any activity that jeopardised the contest, including (but not limited to):

- hacking attempt,
- cheating,
- distracting behaviours,
- etc.

Questions?

Good Luck and Have Fun!

May the CORRECTs be with you