

al-Khawārizmī National Programming Contest

11th - 12th May 2018

International Islamic University Malaysia













Problem Set Analysis









Problem Setters

A Aku Negaraku

B Cheap Deliveries

C Eli's Curious Mind

D Explorace

E Matrix Multiplication Calculator

F Sum of Sub Rectangle Areas

G Wak Sani Satay

H Stroop Effect

I Super Ball

J Virus Outbreak

Mr Zawawi

Ashraf

Ayesheh

Mdm Norleyza

Mdm Marini

Mr Satej (world finalist)

Mdm Rodziah

Prof Zarina

Ashraf

Mr Zawawi











		Level	Attempts	# of YES
А	Aku Negaraku	Easy	42	15
В	Cheap Deliveries	Very hard	5	2
С	Eli's Curious Mind	Medium	6	4
D	Explorace	Medium	7	7
Е	Matrix Multiplication Calculator	Easy	41	17
F	Sum of Sub Rectangle Areas	Very hard	11	3
G	Wak Sani Satay	Easy	63	28
Н	Stroop Effect	Medium	32	4
I	Super Ball	Hard	0	0
J	Virus Outbreak	Medium	106	16











		Solving Approach
Α	Aku Negaraku	Simulation. Critical case M > N
В	Cheap Deliveries	Djikstra, Graph Modeling, DP TSP.
С	Eli's Curious Mind	Dynamic Programming /Fibanocci
D	Explorace	Minimum spanning tree
Е	Matrix Multiplication Calculator	Implementation
F	Sum of Sub Rectangle Areas	Formula: (n*(n+1)*(n+2)/6)^2
G	Wak Sani Satay	Implementation
Н	Stroop Effect	Implementation, understanding question.
I	Super Ball	DP/Directed Acyclic Graph
J	Virus Outbreak	Dynamic Programming /Fibanocci









1st YES



			minute
Α	Aku Negaraku	Make Malaysia Great Again	8
В	Cheap Deliveries	KitKat	255
С	Eli's Curious Mind	iM26C4u	79
D	Explorace	KitKat	78
Ε	Matrix Multiplication Calculator	Aureus	16
11 1	Sum of Sub Rectangle Areas	readme	109
G	Wak Sani Satay	CSC	42
H	Stroop Effect	KitKat	123
	Super Ball		
J	Virus Outbreak	KitKat	6
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