## Survey 3 \* Required

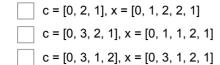
1.	Please give your name *
2.	Please give your CUHK student ID *
3.	How much of Assignment 2 have you completed? *  Mark only one oval.
	What? There is an assignment!?
	Seen it.
	Thought about it.
	Tried it.
	Finished it!!
4.	How many Module 3 lectures have you watched? *  Mark only one oval.
	None
	1
	2-3
	All
5.	What is the best formalization of a pure assignment problem? * Mark only one oval.
	Injective function
	Surjective function
	Bijective function
	Relation
6.	Which of the following logical connectives do you understand? You can tick as many as you want. *  Check all that apply.
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7. Which of the following is needed in common subexpression elimination? * Mark only one oval.
Define enumerate types
Identify the common subexpressions
Introduce an array of Booleans
Introduce intermediate variables to store values of expressions to be reused
NONE of the above
8. How should we define the bounds of intermediate variables? You can tick as many as possible
Check all that apply.
According to the possible type of the common sub-expression
According to the possible values of the common sub-expression
According to the possible type of the intermediate variable
As loose as possible
As tight as possible
9. What is the best formalization of a matching problem? *  Mark only one oval.
Injective function
Surjective function
Bijective function
Relation
10. What is a value symmetry? *  Mark only one oval.
Interchanging a subset of assignments in a solution is still a solution
Interchanging a subset of variables in a solution is still a solution
Interchanging a subset of values in a solution is still a solution
Interchanging a subset of constraints in the model still produces a solution
Interchanging a subset of variables in the model still produces a solution
11. Which global constraint(s) have you seen in lecture videos of Module 3? Tick as many as you want. *
Check all that apply.
cumulative
global_cardinality
all_different
disjunctive
value_precede_chain
12. Have you attempted Workshop 3 yet? *  Mark only one oval.
No
Thought about it
Completed it

13. From where did you learn "finite automaton"? *  Mark only one oval.
Wikipedia
Internet
A course on "automata and language theories" during your undergrad studies
A course on "automata and language theories" during your postgrad studies
I don't know what "finite automaton" is, but is willing to learn by myself
What the heck is finite automaton and why do I care?
14. Do you know that you need to understand "finite automaton" before you know how to use the "regular" global constraint? *  Mark only one oval.
Yes
No
What? Something new to learn by myself?
15. Do you know that you need to understand the "regular" global constraint before you know how to do Workshop 3? *  Mark only one oval.
Yes
No
What? I thought I could finish Workshop 3 without using the "regular" global constraint
16. How much of Assignment 3 have you completed? *  Mark only one oval.
What? There is another ASSIGNMENT!?
Seen it.
Thought about it.
Tried it.
Finished it!!
17. Have you ever encountered errors in MiniZinc related to something called "option types"? *  Mark only one oval.
Yes
○ No
Maybe
18. Have you read and understood Section 2.4 "Option Types" in the MiniZinc Handbook? * Mark only one oval.
Yes
No
Maybe

Mark only one oval.
Yes
No No
Maybe
20. Have you looked at and understood the materials of Reference 6 on "Option Types"?*
Mark only one oval.
Yes
No
Maybe
21. Which of the following answers satisfy the constraint "all_different(x)"? Tick as many as you want. *
Check all that apply.
x = [1, 2, 3, 4]
x = [2, 2, 3, 4]
x = [0, 1, 0, 3]
x = [2, 3, 1, 4]
x = [0, 0, 3, 4]
22. Which of the following answers satisfy the constraint "global_cardinality(x, v, c)"? Tick as many as you want. *
Check all that apply.
x = [0, 1, 2, 2, 1], v = [0, 1, 2], c = [1, 2, 2]
x = [0, 1, 1, 2, 1], v = [0, 1, 2], c = [1, 2, 1]
x = [0, 3, 1, 2, 1], v = [0, 1, 2], c = [1, 2, 1]
x = [0, 3, 1, 2, 1], v = [0, 1, 2, 3], c = [1, 1, 2, 1]
x = [0, 1, 2, 2, 1], v = [0, 1, 2, 3], c = [1, 2, 2, 0]
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23. Which of the following answers satisfy the constraint "global_cardinality_closed(x, v, c)"? Tick as many as you want. *
Check all that apply.
x = [0, 1, 2, 2, 1], v = [0, 1, 2], c = [1, 2, 2]
x = [0, 1, 1, 2, 1], v = [0, 1, 2], c = [1, 2, 1]
x = [0, 3, 1, 2, 1], v = [0, 1, 2], c = [1, 2, 1]
x = [0, 3, 1, 2, 1], v = [0, 1, 2, 3], c = [1, 1, 2, 1]
x = [0, 1, 2, 2, 1], v = [0, 1, 2, 3], c = [1, 2, 2, 0]
24. Which of the following answers satisfy the constraint "global_cardinality_low_up(x, v, I, h)"?
Tick as many as you want. *
Check all that apply.
x = [0, 1, 2, 2, 1], v = [0, 1, 2], I = [0, 0, 0], h = [1, 2, 2]
x = [0, 1, 1, 2, 1], v = [0, 1, 2], l = [1, 2, 1], h = [2, 2, 1]
x = [0, 3, 1, 2, 1], v = [0, 1, 2], l = [0, 1, 0], h = [2, 2, 2]
x = [0, 3, 1, 2, 1], v = [0, 1, 2, 3], I = [0, 1, 0, 1], h = [1, 1, 1, 1]
x = [0, 1, 2, 2, 1], v = [0, 1, 2, 3], l = [0, 1, 0, 0], h = [1, 2, 2, 1]

## 25. Which of the following answers satisfy the constraint "value\_precede\_chain(c, x)"? Tick as many as you want. \* Check all that apply.



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