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.
   - ☐ /\
   - ☐ \/
   - ☐ ->
   - ☐ <->
   - ☐ not

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

19. **Are you aware that there are (optional) Reference Materials in Week 1 on Coursera?** *

Mark only one oval.

- ◯ Yes
- ◯ 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]

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, l, h)"? Tick as many as you want.** *

Check all that apply.

- ☐ x = [0, 1, 2, 2, 1], v = [0, 1, 2], l = [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], l = [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.

- [ ] c = [0, 2, 1], x = [0, 1, 2, 2, 1]
- [ ] c = [0, 3, 2, 1], x = [0, 1, 1, 2, 1]
- [ ] c = [0, 3, 1, 2], x = [0, 3, 1, 2, 1]
- [ ] c = [3, 1, 2], x = [0, 3, 1, 2, 1]
- [ ] c = [0, 1, 2], x = [0, 1, 2, 2, 1]

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