

Survey 4

* Required

1. Please give your name *

2. Please give your CUHK student ID *

3. Have you clicked the "subscribe" button in the forum of the coursera?

Discussion Forums

CUHK-JUDYTEST - Basic Modeling for Discrete Optimization Forum

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Instructor Created Created by Jimmy Lee · an hour ago 0 views 0 replies

Any clue about how to improve a less optimised model

Staff Replied Created by ZHANG Rui · a day ago 3 views 1 replies

Mark only one oval.

- ☐ Yes
- ☐ No
- ☐ What forum?

4. You need to subscribe the forums of three courses, which ones have you subscribed?

Check all that apply.

- ☐ I have subscribed the forum of Course 1!
- ☐ I have subscribed the forum of Course 2!
- ☐ I have subscribed the forum of Course 3!
- ☐ No, I have not subscribed any forums!

5. The notification from the forum will be sent to your CUHK link mail. How many posts have you viewed?

Check all that apply.

- ☐ 0
- ☐ 1
- ☐ 2
- ☐ More than 3

6. How much of Assignment 3 have you completed? *

Mark only one oval.

- ☐ What? There is an assignment!?
- ☐ Seen it.
- ☐ Thought about it.
- ☐ Tried it.
- ☐ Finished it!!

7. How many Module 4 lectures have you watched? *

Mark only one oval.

- ☐ None
- ☐ 1
- ☐ 2-3
- ☐ All

8. If I have 5 kinds of shifts and I need between 2 and 4 persons on each shift, and no other constraints on shift numbers, what form of global cardinality constraint should I use? *

Mark only one oval.

- ☐ global_cardinality_low_up_closed
- ☐ global_cardinality_low_up
- ☐ global_cardinality
- ☐ global_cardinality_closed
- ☐ Shouldn't use global cardinality family of constraints

9. If I have 5 kinds of shifts and I need exactly 4 persons on each shift except the last, what form of global cardinality constraint should I use? *

Mark only one oval.

- ☐ global_cardinality_low_up_closed
- ☐ global_cardinality_low_up
- ☐ global_cardinality
- ☐ global_cardinality_closed
- ☐ Shouldn't use global cardinality family of constraints

10. What is a viewpoint in the context of modeling? *

Mark only one oval.

- ☐ A person's opinion or point of view
- ☐ A place giving a good view.
- ☐ A way of looking at the decisions of the problem from a specific angle.
- ☐ ALL of the above.
- ☐ NONE of the above.

11. What are channeling constraints used for? *

Mark only one oval.

- ☐ Dig a tunnel connecting two models.
- ☐ Allow ship to travel in a channel.
- ☐ Combine two models of the same problem.
- ☐ Restrict information flow in a channel.
- ☐ NONE of the above.

12. Which of the following are advantages of combining models? You can tick as many as you want. *

Check all that apply.

- ☐ Get a bigger model.
- ☐ Some constraints are easier to express in certain viewpoint, but more difficult in other viewpoints.
- ☐ Solve problems more efficiently.
- ☐ Get more constraints.
- ☐ Some constraints are more natural to express in certain viewpoint, but impossible in other viewpoints.

13. Does it make sense to combine a model and a viewpoint (a model without constraints) of the same problem using channeling constraints? *

Mark only one oval.

- ☐ Yes
- ☐ No
- ☐ Maybe

14. What is the minimum number of models possible for a permutation problem? *

Mark only one oval.

- ☐ 0
- ☐ 1
- ☐ 2
- ☐ 3
- ☐ 4

15. Which of the following types of channeling is possible? You can tick as many as possible. *

Check all that apply.

- ☐ Between two integer viewpoints.
- ☐ Between an integer viewpoint and a set viewpoint.
- ☐ Between a Boolean viewpoint and an integer viewpoint.
- ☐ Between a set viewpoint and a Boolean viewpoint.
- ☐ Between two set viewpoints.
- ☐ Between two Boolean viewpoints.
- ☐ Between two representations of the same viewpoints.

16. Which of the following types of channeling do you know? You can tick as many as possible.

Check all that apply.

- ☐ suppose $n = m$, channeling between two arrays: $\text{array}[1..n]$ of var $1..m$: x_1 and $\text{array}[1..m]$ of var $1..n$: x_2 ;
- ☐ suppose $n > m$, channeling between two arrays: $\text{array}[1..n]$ of var $0..m$: a and $\text{array}[1..m]$ of var $1..n$: b ;
- ☐ suppose $n > m$, channeling between two arrays: $\text{array}[1..n]$ of var $0..m$: x_1 and $\text{array}[1..m]$ of var $0..n$: x_2 ;
- ☐ suppose $n > m$, channeling between two arrays: $\text{array}[1..m]$ of var set of $1..n$: x_1 ;
- ☐ $\text{array}[1..n]$ of var $1..m$: x_2 ;

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 Chapter 5 "Option Types" in the MiniZinc tutorial? *

Mark only one oval.

- ☐ Yes
- ☐ No
- ☐ Maybe

19. Have you looked at and understood the materials of Reference 6 on "Option Types" on Coursera? *

Mark only one oval.

- ☐ Yes
- ☐ No
- ☐ Maybe

20. Do you think you understand option types? *

Mark only one oval.

- ☐ Yes
- ☐ No
- ☐ Maybe

21. What is an option type? *

Mark only one oval.

- ☐ A type that is optional
- ☐ A type that has options
- ☐ A regular type that contains an extra value that denotes "absent" or "no value"
- ☐ A set type of possible values
- ☐ NONE OF THE ABOVE

22. Which of the following is an option type? You can tick as many as you want. *

Check all that apply.

- ☐ opt
- ☐ opt int
- ☐ opt bool
- ☐ opt float
- ☐ opt 1..10

23. Where can you use/find the use of option types? You can tick as many as you want. *

Check all that apply.

- ☐ forall expressions
- ☐ sum expressions
- ☐ there exists expressions
- ☐ list/set comprehensions
- ☐ sum/max/min expressions

24. Have you attempted Workshop 4 yet? *

Mark only one oval.

- ☐ No
- ☐ Thought about it
- ☐ Completed it

25. How much of Assignment 4 have you completed? *

Mark only one oval.

- ☐ What? There is another ASSIGNMENT!?
- ☐ Seen it.
- ☐ Thought about it.
- ☐ Tried it.
- ☐ Finished it!!

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