Survey 10 * Required

1.	Please give your name *
2.	Please give your CUHK student ID *
3.	How much of Assignment 9 have you completed? * Mark only one oval.
	What? There is an assignment!?
	Seen it.
	Thought about it.
	Tried it.
	Finished it!!
4.	How many Course 3 Module 2 lectures have you watched? *
	Mark only one oval.
	None
	1
	2-3
	All
5.	What are covered in Module 2? You can tick more than one. * Check all that apply.
	Global constraints
	Propagators
	Propagation Engine
	Basic search
	Variable ordering
	Value ordering
	Branch and Bound
	Restart search
	Conflict-driven search strategies

6. Which of the following can solve a discrete optimization problem? You can take more than one.		
Check all that apply.		
Basic search + propagation + retry		
Branch and Bound search		
Branch and Branch search		
Retry and test		
Generate and test by trying all possible combinations of variable assignments		
7. In Branch and Bound search, what aspects of the search tree is affected by variable choices (assuming value ordering remains unchanged)? You can tick more than one. * Check all that apply.		
The height		
The size		
The width		
The shape		
The ordering of the levels		
The ordering of the branches		
The ordering of the solutions		
The number of root nodes		
The number of internal nodes		
The number of leave nodes		
8. In Branch and Bound search, what aspects of the search tree is affected by value choices (assuming variable ordering remains unchanged)? You can tick more than one. * Check all that apply.		
The height		
The size		
The width		
The shape		
The ordering of the levels		
The ordering of the branches		
The ordering of the solutions		
The number of root nodes		
The number of internal nodes		
The number of leave nodes		
9. Which of the following search strategies do not work with restart? You can tick more than one. Think about why! *		
Check all that apply.		
Variable: input_order Value: indomain_random		
Variable: dom_w_deg Value: indomain_random		
Variable: first_fail Value: indomain_median		
Variable: first_fail Value: dom_w_deg		
Variable: dom_w_deg Value: indomain_median		

10. Which of the following is a reason for using global constraints? You can tick more than one. * Check all that apply.
Global constraints usually have beautiful names
Global constraints give a more succinct expression of the conditions in the problem
Global constraints give a more flexible model
Global constraints usually have an efficient implementation of the associated propagators
Global constraints usually have different implementations of the associated propagators
11. What is the secret behind the implementation of a global constraint propagator? * Mark only one oval.
A linear time algorithm for enforcing domain consistency
A quadratic time algorithm for enforcing the strongest bounds consistency
A polytime algorithm for pruning variable domains
A polytime algorithm for enforcing domain consistency
A polytime algorithm for enforcing the strongest bounds consistency
12. Which of the following is a reason for not implementing a domain or strongest bounds propagator for a global constraint? * Check all that apply.
Enforcing domain or strongest bounds consistencies is too expensive
Enforcing domain or strongest bounds consistencies is too efficient
Enforcing domain or strongest bounds consistencies is the same
Difficult to decide which one is better
Domain propagator is stronger than the strongest bounds propagator
13. Have you attempted Workshop 10 yet? * Mark only one oval.
○ No
Thought about it
Completed it
14. How much of Assignment 10 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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