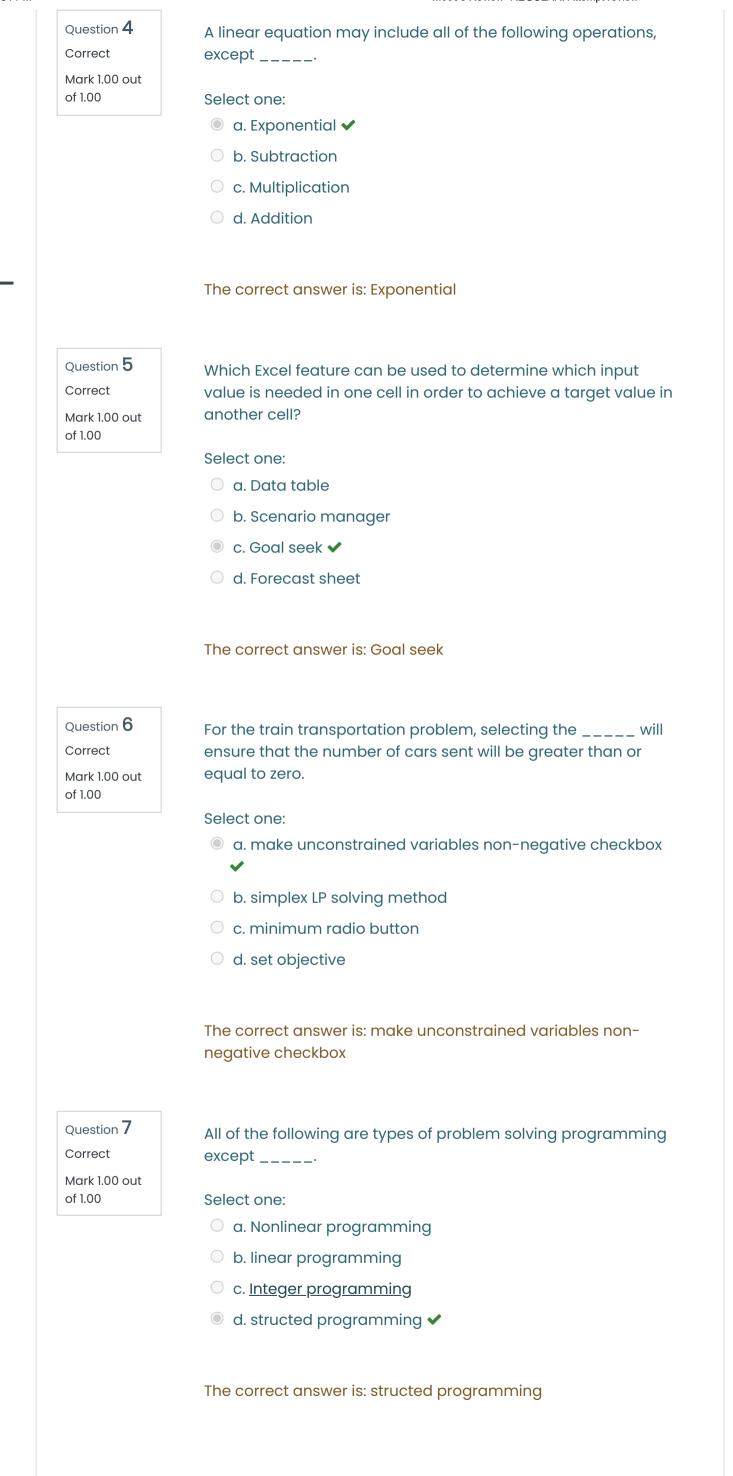
MP1R-20CS2105R 2021-22 Odd Semester <u>Dashboard</u> My courses <u>General</u> Ď, Mooc's Review-REGULAR MATHEMATICAL PROGRAMMING - 1 2021-22 Odd Semester I ♠ Back to course Started on Friday, 12 November 2021, 7:08 PM **State** Finished Completed on Friday, 12 November 2021, 7:54 PM Time taken 45 mins 37 secs Marks 40.00/40.00 Grade 10.00 out of 10.00 (100%) Question 1To represent the relative positions of locations on a map, you can use a(n) \_\_\_\_. Correct Mark 1.00 out of 1.00 Select one: a. bubble chart b. treemap oc. map chart d. XY Scatter chart The correct answer is: XY Scatter chart Question 2 Should you use synthetic data in your benchmarks? Correct Select one: Mark 1.00 out of 1.00 a. Yes,it's faster to generate b. Yes,it's easier to generate c. Only when it's hard to get real data d. No,it will differ from real data The correct answer is: No,it will differ from real data Question 3 Why are floating points inaccurate? Correct Select one: Mark 1.00 out of 1.00 a. Floating points are,in fact,accurate b. It's a hardware bug c. We traded accuracy for speed d. It was a design error The correct answer is: We traded accuracy for speed



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Select one:  a. The median case run time of an algorithm  b. The average case run time of an algorithm  c. The worst case run time of an algorithm  d. The best case run time of an algorithms  The correct answer is: The worst case run time of an algorithms  The correct answer is: The worst case run time of an algorithms  The correct answer is: The worst case run time of an algorithms  The correct answer is: The worst case run time of an algorithms  The correct answer is: The worst case run time of an algorithms  The correct answer is: The worst case run time of an algorithms  The correct answer is: The worst case run time of an algorithms  The correct answer is: The worst case run time of an algorithm  What will make pypy unsuitable for you?  Select one:  a. It won't work with a 3rd party module   To discover how many stores are assigned to a specific depocreate a formula using the function.  Select one:  a. Counta  b. Counta  b. Counta  c. Counta  c. Counta  d. IF  The correct answer is: COUNTIF  How is the "timeit" command better than "time"?  Select one:  a. It provides units of measurement  b. It is easier to use  c. It averages results and ignores warm up   d. We can use it from IPython	Question 8	What does "Big O" describe?
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The correct answer is: It averages results and ignores warm u		<ul> <li>d. We can use it from IPython</li> </ul>
		The correct answer is: It averages results and ignores warm u

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Question 12 Should you use AsyncIO on IO bound tasks? Correct Select one: Mark 1.00 out of 1.00 a. No,AsynclO is for CPU bound tasks b. Yes,but only if you have async drivers c. No,AsyncIO is not mature enough d. Yes,but only in Python 3 The correct answer is: Yes, but only if you have async drivers Question 13 In what stages of the process should we think about Correct performance? Mark 1.00 out of 1.00 Select one: a. Code review b. All of these answers c. Testing d. Design The correct answer is: All of these answers Question 14 The level of risk associated with an investment as compared to Correct the overall market is the investment's \_\_\_\_. Mark 1.00 out of 1.00 Select one: a. Beta b. Delta c. Sigma d. Alpha The correct answer is: Beta Question 15 Before using Solver, organize the worksheet so cells with \_\_\_\_ Correct are placed in the same row or column. Mark 1.00 out of 1.00 Select one: a. similar properties b. similar amounts c. neither of these answers The correct answer is: similar properties



0 0 0

	should we use threads?
Mark 1.00 out of 1.00	Select one:
	<ul> <li>a. Yes,threads are good for CPU bound operations</li> </ul>
	<ul><li>b. No,threads are bad for IO bound operations</li></ul>
	c. No,threads are bad for CPU bound operations
	<ul> <li>d. Yes,threads are great for IO bound operations</li> </ul>
	The correct answer is: Yes,threads are great for IO bound operations
Question 17	Why are built-in functions better than hand written ones?
Correct  Mark 1.00 out	Select one:
of 1.00	a. They consume less memory
	<ul> <li>b. They are written by Python developers</li> </ul>
	<ul><li>c. They are usually faster and you write less code </li></ul>
	d. They are more flexible
	The correct answer is: They are usually faster and you write les code
Question 18	Which of the following is not a report option in solver?
Question 18 Correct Mark 1.00 out	Which of the following is not a report option in solver?  Select one:
Correct	
Correct Mark 1.00 out	Select one:
Correct Mark 1.00 out	Select one:  a. sensitivity
Correct Mark 1.00 out	Select one:  a. sensitivity  b. limits
Correct Mark 1.00 out	Select one:  a. sensitivity  b. limits  c. original values ✓
Correct Mark 1.00 out	Select one:  a. sensitivity  b. limits  c. original values   d. answer
Correct Mark 1.00 out of 1.00  Question 19 Correct Mark 1.00 out	Select one:  a. sensitivity b. limits c. original values   d. answer  The correct answer is: original values
Correct Mark 1.00 out of 1.00  Question 19 Correct	Select one:  a. sensitivity b. limits c. original values   d. answer  The correct answer is: original values  What is required to build C extensions?
Correct Mark 1.00 out of 1.00  Question 19 Correct Mark 1.00 out	Select one:  a. sensitivity b. limits c. original values   d. answer  The correct answer is: original values  What is required to build C extensions?  Select one:
Correct Mark 1.00 out of 1.00  Question 19 Correct Mark 1.00 out	Select one:  a. sensitivity b. limits c. original values   d. answer  The correct answer is: original values  What is required to build C extensions?  Select one:  a. Python header files and a C compiler    a.
Correct Mark 1.00 out of 1.00  Question 19 Correct Mark 1.00 out	Select one:  a. sensitivity  b. limits  c. original values   d. answer  The correct answer is: original values  What is required to build C extensions?  Select one:  a. Python header files and a C compiler   b. a C compiler and Linux

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Question 20 Correct	When using Goal Seek, you can find a target result by varying most inputs.
Mark 1.00 out	
of 1.00	Select one:
	O a. 3
	O b. 2
	O c. 4
	The correct answer is: 1
Question <b>21</b> Correct	What is line profiler granularity?
Mark 1.00 out	Select one:
of 1.00	a. Function
	b. Line of code   ✓
	o c. Instruction
	O d. Class
	The correct answer is: Line of code
Question <b>22</b> Correct	What can you use in Python 2 to profile memory?
Mark 1.00 out	Select one:
of 1.00	a. mprof
	b. memory_profiler
	o. iPython
	O d. tracemalloc
	The correct answer is: memory_profiler
Question <b>23</b> Correct	Can caching work on any function?
Mark 1.00 out	Select one:
of 1.00	a. only on functions that don't side effects
	<ul> <li>b. only on functions with small number of arguments</li> </ul>
	c. not on recursive functions
	d. not on built-in functions
	The correct answer is: only on functions that don't side effects



11/12/21, 7:54 PM of 1.00 Mark 1.00 out of 1.00 

Question 24 When will we prefer joblib over Iru\_cache? Correct Select one: Mark 1.00 out

- a. when we deal with large number
- b. when we have fast disk
- c. when we'd like to save cached results between runs
- d. when we work with strings

The correct answer is: when we'd like to save cached results between runs

Question 25 Correct

Are processes good for tasks that communicate a lot?

## Select one:

- a. Yes,we can pass arguments on the disk
- b. Yes,we can share objects
- c. No,processes are bad for CPU bound tasks
- d. No,the cost of IPC will be too much

The correct answer is: No, the cost of IPC will be too much

Question 26 Correct Mark 1.00 out of 1.00

Python will allocate new memory every time you append to a list.

## Select one:

- a. TRUE
- b. FALSE 

  ✓

The correct answer is: FALSE

Question 27 Correct Mark 1.00 out

of 1.00

What are "cache friendly" algorithms?

## Select one:

- a. Algorithms that store everything in memory
- b. Algorithms that divide the data to small parts that fits inside a CPU cache line 🗸
- c. Algorithms that cache computation results
- d. Algorithms that purge the CPU cache before working

The correct answer is: Algorithms that divide the data to small parts that fits inside a CPU cache line

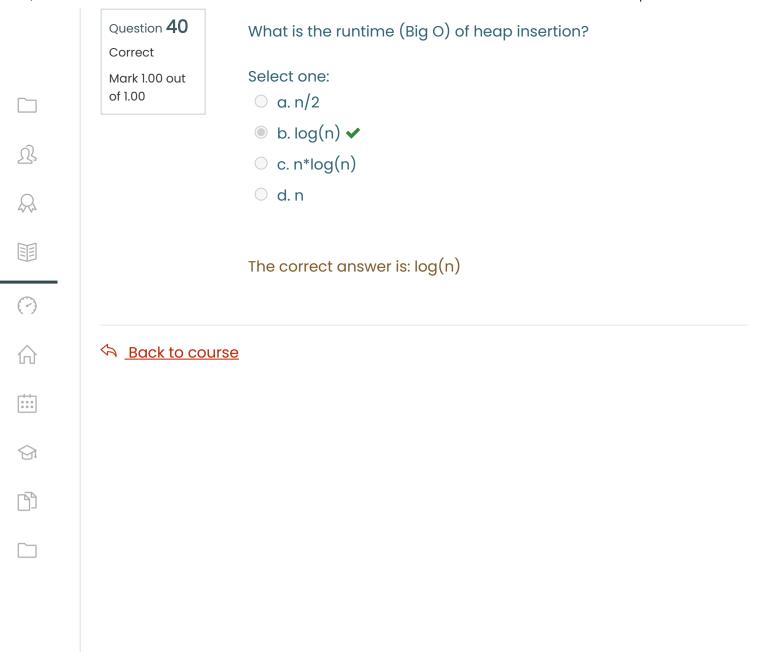
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Question 28What data should you use in your benchmarks? Correct Select one: Mark 1.00 out of 1.00 a. hand calculated data b. synthetic data c. randomly generated data d. real world data The correct answer is: real world data Question 29 Which of the following is not an option on the auto fill menu? Correct Select one: Mark 1.00 out of 1.00 a. paste cells b. fill without formatting c. copy cells d. fill formatting only The correct answer is: paste cells Question 30 Why is important to think about performance during design? Correct Select one: Mark 1.00 out of 1.00 a. We can skip performance at the design step and think about it while coding b. It will affect system design and save you time later in the process 🗸 c. It will make design meetings more enjoyable d. It will flush out all the performance problems The correct answer is: It will affect system design and save you time later in the process Question 31 \_\_\_ allow you to change values in \_\_\_ cells. Correct Select one: Mark 1.00 out of 1.00 a. Scenarios; formula b. Scenarios; multiple c. What-Ifs; multiple The correct answer is: Scenarios; multiple

Question 32 Why should you have measurable performance goals? Correct Select one: Mark 1.00 out of 1.00 a. You can do without optimization if your code already matches the goals. b. If will affect the design of the code c. all of these answers d. If forces stakeholders to come up with goals. The correct answer is: all of these answers Question  $\bf 33$ To find the best expected return from a portfolio with an overall Correct beta of 1.3, set the objective cell's function to \_\_\_\_. Mark 1.00 out Select one: of 1.00 a. MIN b. Specific Value d. AVERAGE The correct answer is: MAX Question 34 What is one of the downsides of using Cython? Correct Select one: Mark 1.00 out of 1.00 a. You can't write comments b. You can't use it in Python 2 c. You need to know C d. You need an extra compilation step The correct answer is: You need an extra compilation step Ouestion 35 Will bistect work on any list? Correct Select one: Mark 1.00 out of 1.00 a. No,only on sorted lists b. No,only on numeric c. Yes,but in some cases it can be slow od. Yes The correct answer is: No, only on sorted lists

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Question 36 The total of all probabilities associated with end nodes on a major branch of a decision tree should add up to \_\_\_\_. Correct Mark 1.00 out of 1.00 Select one: a. 0 ○ b. -1 ○ c. -100 d. 1 The correct answer is: 1 Question 37 The \_ let(s) you store different values that can be applied to Correct your worksheet. Mark 1.00 out of 1.00 Select one: a. data validation tools b. forecast sheet c. goal seek button d. scenario manager The correct answer is: scenario manager Question 38 Is LRU the best cache eviction policy? Correct Select one: Mark 1.00 out of 1.00 a. No,it can have bugs b. No,it depends on your data c. No,random is better d. No,MRU is better The correct answer is: No,it depends on your data Question 39 When setting an objective for the solver, which of the following is not an option in the to field? Correct Mark 1.00 out of 1.00 Select one: a. zero ob. max oc. min d. value of The correct answer is: zero



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🗀 Data retention summary

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