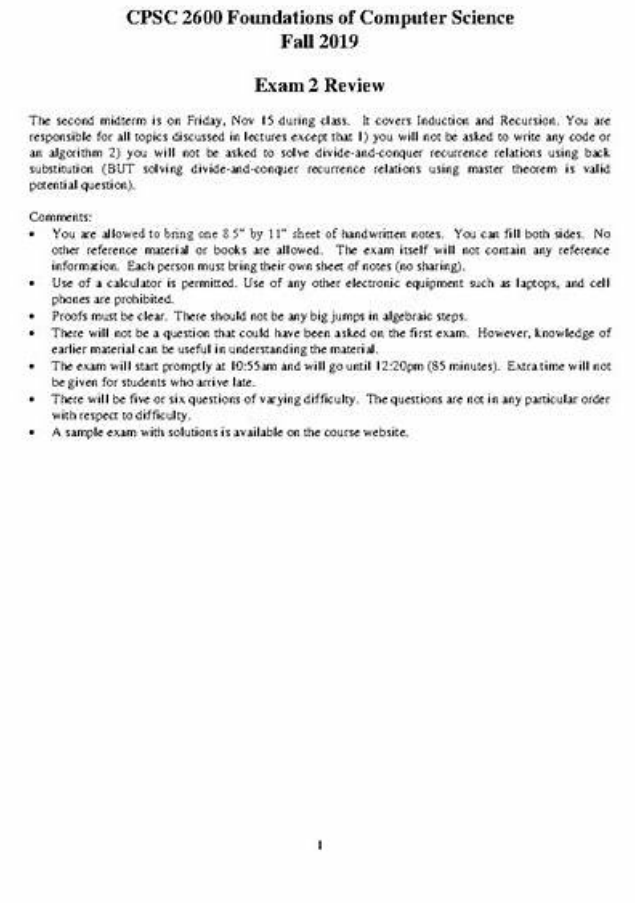
New Foundations-of-Computer-Science Exam Guide & VCE Foundations-of-Computer-Science Dumps



CPSC 2600 Foundations of Computer Science
Fall 2019

Exam 2 Review

The second midterm is on Friday, Nov 15 during class. It covers Induction and Recursion. You are responsible for all topics discussed in lectures except that 1) you will not be asked to write any code or an algorithm 2) you will not be asked to solve divide-and-conquer recurrence relations using back substitution (BUT solving divide-and-conquer recurrence relations using master theorem is valid potential question).

Comments:

- You are allowed to bring one 8.5" by 11" sheet of handwritten notes. You can fill both sides. No other reference material or books are allowed. The exam itself will not contain any reference information. Each person must bring their own sheet of notes (no sharing).
- Use of a calculator is permitted. Use of any other electronic equipment such as laptops, and cell phones are prohibited.
- Proofs must be clear. There should not be any big jumps in algebraic steps.
- There will not be a question that could have been asked on the first exam. However, knowledge of earlier material can be useful in understanding the material.
- The exam will start promptly at 10:55am and will go until 12:20pm (85 minutes). Extra time will not be given for students who arrive late.
- There will be five or six questions of varying difficulty. The questions are not in any particular order with respect to difficulty.
- A sample exam with solutions is available on the course website.

P.S. Free & New Foundations-of-Computer-Science dumps are available on Google Drive shared by DumpsReview: https://drive.google.com/open?id=14VZi6aPr9_DgZd1tvBxEBy6BglXLPJ8N

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>> New Foundations-of-Computer-Science Exam Guide <<

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WGU Foundations of Computer Science Sample Questions (Q12-Q17):

NEW QUESTION # 12
What statistical measure can be used to detect outliers in a dataset using NumPy?

- A. Mode
- B. Median absolute deviation
- C. Variance
- D. Standard deviation

Answer: B

Explanation:
Outlier detection often relies on measuring how far values deviate from a "typical" center. While variance and standard deviation can be used in simple z-score based methods, they arenot robust: a few extreme outliers can inflate the mean and standard deviation, masking the very outliers you want to find. A widely taught robust alternative is themedian absolute deviation (MAD), which is based on the median rather than the mean and therefore resists distortion by extreme values.
MAD is computed by first taking the median of the data, then computing the absolute deviation of each point from that median, and finally taking the median of those deviations. Because medians are stable under extreme values, MAD provides a strong baseline for identifying unusually distant points. Many textbooks and data analysis references present MAD as a robust scale estimator for outlier detection, often combined with a threshold rule such as flagging points whose deviation exceeds a constant multiple of MAD (with a scaling factor sometimes used to make it comparable to standard deviation under normality assumptions).
In NumPy, you can implement MAD using np.median() and np.abs(). Mode is generally not useful for continuous numeric outlier detection, and variance/standard deviation are more sensitive to outliers than MAD. Thus, among the given options, the best statistical measure for detecting outliers robustly is the median absolute deviation.

NEW QUESTION # 13
What is the likely cause if a default Python configuration does not recognize a NumPy array as an allowed data structure?

- A. The array module is not imported.
- B. The NumPy package is not present.
- C. The Python interpreter is misconfigured.
- D. The Python version is outdated.

Answer: B

Explanation:
NumPy arrays are not a built-in Python data structure. In a default Python installation, the interpreter includes core types such as int, float, str, list, tuple, dict, and set, plus the standard library. A NumPy array, typically created as numpy.ndarray, is provided by the third-party NumPy library. Therefore, if a "default Python configuration" does not recognize a NumPy array, the most likely cause is thatNumPy is not installed or not available in the active environment. This happens often when a user has multiple Python environments (system Python, virtual environments, conda environments) and installs NumPy into one environment while running code in another.
Option B is incorrect because Python's standard-library array module is different from NumPy. Importing array does not create or enable NumPy's ndarray type. Option C is possible in rare cases,but the typical, textbook-aligned explanation is missing dependencies rather than an incorrectly configured interpreter. Option D is also unlikely: while very old Python versions may cause compatibility issues with modern NumPy releases, the symptom described-NumPy arrays not being recognized at all-more directly indicates the package is absent in the running environment.
In practice, verifying import numpy and checking the installed packages for the current interpreter resolves the issue.

NEW QUESTION # 14
What is the method for changing an element in a Python list?

- A. Use square brackets and the equals sign

- B. Use the del keyword and the element's value
- C. Use curly brackets and the equals sign
- D. Use parentheses and the plus sign

Answer: A

Explanation:
In Python, a list is a mutable sequence, meaning its elements can be changed after the list is created. The standard textbook method for updating a specific element isindex assignment, which uses square brackets to select the position and the equals sign to assign a new value. For example, if nums = [10, 20, 30], then nums
[1] = 99 changes the element at index 1 from 20 to 99, producing [10, 99, 30]. This works because lists store references to objects and allow those references to be updated in-place.
Option B is incorrect because parentheses are used for function calls and tuples, and the plus sign typically performs concatenation (creating a new list) rather than modifying an existing element by position. Option C is incorrect because curly brackets denote dictionaries or sets, not lists. Option D is incorrect because del removes elements by index or slice (for example, del nums[1]), and it does not delete by "the element's value" unless you first find the index. Deleting is not the same as changing; deletion reduces the list's length and shifts later indices.
Index assignment is fundamental in list manipulation and appears in standard algorithms: updating counters, replacing sentinel values, editing collections, and implementing in-place transformations efficiently without allocating a new list.

NEW QUESTION # 15
What is the only content that will display if the List folder contents permission is not enabled for a particular folder in Windows 11?

- A. Files with Write permission
- B. Files with Read permission
- C. The folder's creation date
- D. The folder's author

Answer: C

Explanation:
In Windows file security (NTFS permissions), "List folder contents" controls whether a user cansee the names of files and subfoldersinside a folder. If a user does not have permission to list a folder, Windows prevents directory enumeration: the user cannot browse the folder and view what is inside. (2BrightSparks) This is a key concept in access control: it separates "being able to traverse to a location" from "being able to see what is stored there." When "List folder contents" is not enabled, the user typically cannot view the list of files regardless of whether individual files might have separate permissions. In standard user-facing behavior, what remains visible in the folder's properties and metadata is limited; among the choices given, the only item that is reliably a folder-level metadata attribute (and not a listing of contents) is the folder'screation date. The
"author" is not a universal, reliably displayed NTFS folder property, and options C and D talk about files (contents), which cannot be listed without the list permission. (2BrightSparks) This reflects a broader textbook principle: operating systems enforce access control both on objects (files/folders) and on operations (read data, write data, list directory). Removing the list operation blocks visibility of contents, even if other permissions exist elsewhere.

NEW QUESTION # 16
Which statement describes the data type restriction found in most NumPy arrays?

- A. NumPy arrays can only hold integer data types.
- B. NumPy arrays adapt to the most complex data type on the fly.
- C. NumPy arrays must be of the same type of data.
- D. NumPy arrays are restricted to string data types only.

Answer: C

Explanation:
Most NumPy arrays enforce a key constraint: all elements share the samedtype(data type). This uniform typing is foundational to NumPy's performance model. Because each element has the same size and representation, NumPy can store the array in a contiguous memory block and apply low-level, vectorized operations efficiently. This is why NumPy is widely used for numerical computing, statistics, and data analysis: operations like addition, multiplication, and reductions (sum/mean) can be implemented in optimized compiled code without per-element Python overhead.

Option B captures this textbook principle: elements in a typical ndarray are of the same data type. The other options are incorrect. NumPy is not restricted to strings (A), and it is not limited to integers (C); it supports floats, complex numbers, booleans, fixed-width strings, datetime types, and many others. Option D is misleading: NumPy does not continuously "adapt on the fly" during normal use. The dtype is generally fixed once the array exists. What NumPydoesdo is choose an appropriate common dtype when you create an array from mixed inputs (for example, mixing ints and floats yields floats). But after creation, assignments are cast into the existing dtype rather than dynamically changing the dtype to accommodate new values.
This restriction is precisely what differentiates NumPy arrays from Python lists and enables predictable memory layout and fast numerical computation.

NEW QUESTION # 17
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