**CSCI152 Midterm Exam 2 Review (Answers):**

**Jeopardy board available here: https://jeopardylabs.com/play/midterm-exam-2-review-3**

**Recursion:**

100 – What is missing?

200 – What is recursion?

300 – What are pitfalls of recursion?

400 – What is “Bottom-up” dynamic programming?

500 – What is the reduction step?

**Performance:**

100 – Daily Double (What is empirical runtime analysis?)

This type of runtime analysis refers to gather observations (in the form of numbers) about the runtime (t) of a program compared to the input size (n).

200 – What is 1 or constant time?

300 – What is 36 bytes?

400 – What is ~ (tilde) i.e., g(n) ~ f(n)

500 – What is a line?

**Abstract Data Types:**

100 – What is a safe pointer?

200 – What is myString?

300 – What is isTrue?

400 – What is aliasing?

500 – Daily Double (What is immutable?)

An object from/within a data type is this word if it’s data type value cannot change once created?

**Creating Data Types:**

100 – What is wrapper types?

200 – What is default constructor, or constructor?

300 – What is toString()?

400 – What is this?

500 – What is polymorphism or dynamic dispatch?

**Name that Keyword:**

100 – What is final?

200 – What is implements?

300 – What is extends?

400 – What is public?

500 – What is abstract?

**Final Jeopardy:**

What is a palindrome? (be sure to review the implementation of mystery function\*)

PS C:\Users\addisonb\Documents\Fall2023\CSCI152\_InterdisciplinaryComputerScienceII\11\_15\_2023> java MysteryString .\mysterywords.txt

saippuakivikauppias "is" this special word.

cineangiocardiographic "is not" this special word.

apple "is not" this special word.

rotator "is" this special word.

orange "is not" this special word.

racecar "is" this special word.