Assignment AR1

Tradd Schmidt

1. What will the following code output?

str\_1 = "hello"

str\_2 = "world"

if str\_2 < str\_1:

  print("true")

elif str\_2 > str\_1:

  print("false")

else:

  print("They are equal")

* 1. ‘true’
  2. ‘false’
  3. ‘They are equal’
  4. Error: the > operand can not compare values of type “string”
  5. None of the above

1. **Author**: Tradd Schmidt
2. **Topic**: A4
3. **Level**: Application
4. **Level Reason**: When attempting to search data structures like you do in A4, it is handy to know how comparison operands apply to different types of data other than numbers.

* **Answer**: B. is correct because world comes sequentially after hello and therefore the program will print ‘false’

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6. What is a binary search?

1. A search algorithm on computer level language using 1’s and 0’s
2. A search that first converts all of the numbers in a data structure to 1’s and 0’s and then searches through it
3. A search that starts at the middle of a data structure, it is then determined if the target number is too high or too low and adjusts until the number is reached.
4. A search of a data structure that uses less than 32 bits of memory
5. None of the above

* **Author**: Tradd Schmidt
* **Topic**: A4
* **Level**: Comprehension
* **Level Reason**: This question is checking whether a person understands what a binary search is
* **Answer**: c. This is the closest correct definition of a binary search

11. Which of the following is the name of the first node of a linked list?

1. Head
2. Alpha
3. It is just called “the first node”
4. All of the above are correct

* **Author**: Tradd Schmidt
* **Topic**: T7
* **Level**: Knowledge
* **Level Reason**: This is just a recall of the name of something
* **Answer**: a. The proper name is the head of the linked list