

EEOS 472 – Programming for GIScience Applications – Spring 2011

Exercise 17A

Additional Instructions/Notes

1. For all exercises in this course, you will want to make a copy of the exercise .mxd to your H:\ space and open that, rather than using the one in the course data directory on S:\ because the exercises almost always involve customizing the project document, which you cannot do to the one on S:\, since you do not have write access there.

Question 17A-1 (2 marks)

What is the difference between the features displayed by a definition query and a set of selected features?

Question 17A-2 (1 marks)

In VBA, how do we include quotations marks around a string that is within quotation marks in the code?

Exercise 17B

Additional Instructions/Notes

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Question 17B-1 (1 mark)

Of the five selection methods (`esriSelectionResultNew`, `esriSelectionResultAdd`, `esriSelectionResultSubtract`, `esriSelectionResultAnd`, `esriSelectionResultXOR`), which corresponds to the Boolean operation OR?

Question 17B-2 (1 mark)

Exclusive OR (or XOR) is a bit of a tricky concept. Explain in plain language what it means.

Question 17B-3 (1 mark)

Suggest a situation where we might want to use a selection color other than the usual default selection color.

Exercise 18A**Additional Instructions/Notes**

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Question 18A-1 (2 marks)

The text suggests that the terms 'row' and 'record' are essentially interchangeable for tables and feature classes. How does this work / why is this the case here?

Exercise 18B**Additional Instructions/Notes**

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Question 18B-1 (2 marks)

The term cursor has a very different meaning in the ArcGIS VBA context than it does elsewhere. What is a cursor here? What is it used for / what can one do with a cursor?

Question 18B-2 (1 mark)

The IEnvelope object is a code implementation of a basic concept in geographic information science. What do we usually call the smallest 4-sided shape that encloses a geographic feature?