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| **AP CSP Python with CodeX**  **Traversing a List #3 Activity Guide** | | **Name:** |
| **Introduction** | | |
| During this assignment, you will create three new CodeX programs that traverse a list. | | |
| **Warm-Up** | | |
| Discuss how you create a list and access an element in the list. |  | |
| Discuss how you traverse a list. |  | |
| Discuss the structure of a for loop. |  | |
| **Examples** | | |
| Use this space to take notes about the code for example #6.  The program will traverse a list to see if a particular item is in the list. |  | |
| Use this space to take notes about the code for example #7.  This program will traverse a list to filter it, creating a sub-list. |  | |
| Use this space to take notes about the code for example #8.  This program will traverse a list to filter it, by checking to see if a value from one list is in a second list. |  | |
| **Wrap-Up** | | |
| Discuss several ways to traverse a list. |  | |
| Discuss several reasons to traverse a list. |  | |
| Reflect on your programming experience during this unit. What are some things you learned about programming in general? |  | |
| During this lesson you created three programs: Class\_Schedule, Number\_Sorter and Animal\_Sorter. Submit your programs to the teacher. | | |