| **AP CSP Python with CodeX**  **Traversing a List #2 Activity Guide** | | | | | | **Name:** | | | | | |
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| **Introduction** | | | | | | | | | | | |
| During this assignment, you will modify two CodeX programs to use a for loop. | | | | | | | | | | | |
| **Warm-Up** | | | | | | | | | | | |
| What do you remember about a for loop? | | | |  | | | | | | | |
| What do you remember about traversing a list? | | | |  | | | | | | | |
| **Examples and Challenges** | | | | | | | | | | | |
| For loop example. Use this space to take notes about the for loop example. | | | |  | | | | | | | |
| Slides 7 & 8 review information about traversing a list. Use this space to take notes. | | | |  | | | | | | | |
| Use this space to take notes about the code for example #4.  During this project you traverse two lists. | | | |  | | | | | | | |
| Slide 16 reviews abstraction. Explain procedural abstraction and data abstraction. | | | |  | | | | | | | |
| Use this space to take notes about the code for example #5.  During this project you traverse a 2D list. | | | |  | | | | | | | |
| Challenge #1  Were you able to complete the challenge? If so, which method did you use: a third list or a matrix? | | | |  | | | | | | | |
| Challenge #2  Were you able to complete the challenge? If so, explain which program you used and the changes you made. | | | |  | | | | | | | |
| **Wrap-Up** | | | | | | | | | | | |
| Explain how to traverse a list. | | | |  | | | | | | | |
| Explain what a matrix is. | | | |  | | | | | | | |
| During this lesson you modified Answer\_Bot\_traversals and completed Pixels1\_traversals and Pixels1\_matrix, plus any challenges. Submit your modified programs to the teacher. | | | | | | | | | | | |