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|  | **C:\Users\Nasser\Desktop\image1-1.png**  **Spring2024-2025**  **CMPE124/ISYE223**  **Algorithms and Programming**  **Labwork 3** |

**Questions:**

Write full C/C++ programs and run for the following array operations:

1. Average of 1D array elements
2. Print the even numbers in an 1D array
3. Printing the 1D array contents in the reverse order
4. Create another 1D array to load the input array contents in the reverse order
5. Create two 5 element arrays from one 10 element array. The first small array should keep the first 5 elements of the 10 element array, the second small array will keep the rest.
6. Calculate summation of Xi2 + 3 for 10 elements.
7. Print the diagonal elements of 2D array.
8. Print the upper triangular part of the 2D array
9. Print the lower triangular part of the 2D array
10. Create another 2D array for the transpose of the input array