

### Practice problems v4: 1D array

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1. Write a program which takes input of array from user. Program should update each value of array by multiplying current value with next and previous element of array. Print values of array. You may have deal first and last cell value differently. For first and last cell, you can keep the value unchanged.

Implement reverse operation and get original values of array back by dividing the value with next and previous element of array. Print array. Resultant array should be equal to the array user entered.

2. Write a program that declare an array named fib\_series of length 40 and fill the array with first 40 Fibonacci numbers.

Fibonacci numbers are 0,1,1,2,3,5,8..... where each number is sum of two preceding numbers.

3. Write a program to take elements of two arrays of integers named Array1 and Array2 from user. Program should produce a third array named Array3. Fill the 3rd array Array3 with the following sequence.

- All even numbers of A from left to right are copied into C.
- All odd numbers of A from left to right are copied into C.
- All even numbers of B from left to right are copied into C.
- All old numbers of B from left to right are copied into C.