Assignment for 19.10.16

Write program, which reads array $x_0 \dots x_{n-1}$

- 1. Write a program using pointer to get $x_0 * (x_0+x_1) * (x_0+x_1+x_2) * * (x_0+x_1+...+x_{n-1})$.
- 2. Write a program using pointer to get $x_{n-1} * (x_{n-2} + x_{n-1}) * (x_{n-3} + x_{n-2} + x_{n-1}) * * (x_0 + x_1 + ... + x_{n-1})$

Write program, which reads two arrays $x_0 \dots x_{n-1}$ and $y_0 \dots y_{n-1}$. The program outputs the value of

- $3. \quad x_{0}*(y_{0}+y_{1}+y_{2}+\ldots+y_{n-1})+x_{1}*(y_{1}+y_{2}+y_{3}+\ldots+y_{n-1})+x_{2}*(y_{2}+y_{3}+y_{4}+\ldots+y_{n-1})+\ldots+x_{n-1}*y_{n-1}$
- $4. \quad x_{0}*(y_{0}+y_{1}+\ldots+y_{n-1})+(x_{0}+x_{1})*(y_{1}+\ldots+y_{n-1})+(x_{0}+x_{1}+x_{2})*(y_{2}+\ldots+y_{n-1})+\ldots+(x_{0}+x_{1}+\ldots+x_{n-1})*y_{n-1}+\ldots+(x_{n-1}+x_{n-1})*y_{n-1}+\ldots+y_{n-$
- 5. $x_{0}*(y_{1}+y_{2}+...+y_{n-1})+(x_{0}+x_{1})*(y_{2}+...+y_{n-1})+(x_{0}+x_{1}+x_{2})*(y_{3}+...+y_{n-1})+...+(x_{0}+x_{1}+...+x_{n-2})*y_{n-1}$
- 6. Write program to store first 100 Fibonacci numbers in an array and then add all the numbers using pointer.
- 7. Given an array of integer numbers and then of sort it. Search for a particular item and display the position. Write the program using pointer.
- 8. Write a program using pointer to add two matrices and display the elements of the new matrix after addition using pointer variable.
- 9. Write a program using pointer to multiply two matrices and display the elements of the new matrix after multiplication using pointer variable.
- 10. Find the transpose of a matrix using pointer.

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[For accessing 2D array – indexing a[i][j] is same as
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- 11. Write a C program that counts total number of characters, words, white-spaces and lines in a given text file using pointer.
- 12. Make a cypher text using pointer where the odd placed elements will be replaced by previous character and the even placed element by next character.
- 13. Make a cypher text using pointer where the odd placed elements will be replaced by uppercase character and the even placed element by lowercase character keeping blank space as it is.