Assignment 1

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Download all Codes from

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https://github.com/srikanth2001/EE4013-C_DS/tree/main/Assingnment-01/codes
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Download all latex-tikz codes from

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https://github.com/srikanth2001/EE4013-C_DS/blob/main/Assingnment-01/assignment1.tex
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1 Problem

(Q 22) Consider the following C fProgram.

The output of the program is?

2 Solution

Answer: The output of the program is-19

Explanation

Let consider that input a is a 2D matrix

$$a = \begin{bmatrix} 1 & 2 & 3 & 4 & 5 \\ 6 & 7 & 8 & 9 & 10 \\ 11 & 12 & 13 & 14 & 15 \\ 16 & 17 & 18 & 19 & 20 \end{bmatrix}$$

From the above matrix **a represents the index of the element in $a_{[0][0]}$ element i.e 1,

$$*(*(a+1+2)+3))$$
 (2.0.1)

in above equation (*(a+3) +3) this represents the index of $a_{[3][3]}$ in the matrix a. Hence the Output will be $a_{[3][3]}$ Element of the matrix a i.e 19

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