

Assignment 1

Kamparaju Srikanth - EE18BTECH11023

Download all Codes from

https://github.com/srikanth2001/EE4013---C_DS/blob/main/Assingnment-01/codes/CS20_Q22.C

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

1 PROBLEM

(Q 22) Consider the following C fProgram.

```
#include <stdio.h>
int main(){
    int a[4][5] = {{1,2,3,4,5},
                  {6,7,8,9,10},
                  {11,12,13,14,15},
                  {16,17,18,19,20}};
    printf("%d", *((a+**a+2) +3));
    return(0);
}
```

The output of the program is?

2 SOLUTION

Answer : The output of the program is 19

Explanation

'in printing this value

$$*((a + **a + 2) + 3)) \quad (2.0.1)$$

**a = 1 {1st row 1st element} then ,

$$*((a + 1 + 2) + 3)) \quad (2.0.2)$$

in above equation $*(a+3) +3$ this represents the Address of 3rd column of 3rd row. Hence the Output the output will 4th column of 4th row Element i.e 19