Assignment 1

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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

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

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

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

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