

# 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

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

\*\*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  $3^{rd}$  column of  $3^{rd}$  row. Hence the Output the output will  $3^{rd}$  column of  $3^{rd}$  row Element i.e 19