

Answer on Question#37614 - Programming, C++

1. Write a function in C++ to print the product of each column of a two dimensional integer array passed as the argument of the function.

Explain : If the two dimensional array contains

```
1 2 4
3 5 6
4 3 2
2 1 5
```

The output should appear as :

Product of Column 1 = 24

Product of Column 2 = 30

Product of Column 3 = 240

Solution.

```
#include <iostream>

using namespace std;

void output(int (*arr)[3]);
int main(int argc, char* argv[])
{
    int arr[4][3]={{1,2,4},
                  {3,5,6},
                  {4,3,2},
                  {2,1,5}};

    output(arr);

    system("pause");
    return 0;
}

void output(int (*arr)[3])
{
    int product=1;
    for(int j=0; j<3; j++)
    {
        for(int i=0; i<4;i++)
        {
            product*=arr[i][j];
        }

        cout<<"Product of Column "<< j + 1<<" = "<<product<<endl;
        product=1;
    }
}
```

C:\ d:\DataBase\QQ\Debug\QQ.exe

```
Product of Column 1 = 24  
Product of Column 2 = 30  
Product of Column 3 = 240
```