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//30 pascal trangle up to n row
 * C program to print Pascal triangle up to n rows
#include <stdio.h>
/* Function definition */
long long fact(int n);
int main()
{
    int n, k, num, i;
    long long term;
    /* Input number of rows */
    printf("Enter number of rows : ");
    scanf("%d", &num);
    for(n=0; n<num; n++)
        /* Prints 3 spaces */
        for(i=n; i<=num; i++)
    printf("%3c", ' ');</pre>
        /* Generate term for current row */
        for(k=0; k<=n; k++)
        {
            term = fact(n) / (fact(k) * fact(n-k));
            printf("%6lld", term);
        }
        printf("\n");
    }
    return 0;
}
 * Function to calculate factorial
long long fact(int n)
    long long factorial = 1ll;
    while(n > = 1)
    {
        factorial *= n;
        n--;
    return factorial;
OUTPUT:
Enter number of rows : 10
                          1
                        1
                            1
                          2
                              1
                      1
                            3
                        3
                                 1
                    1
                  1
                          6
                              4
                                   1
                      4
                                 5
                1
                    5
                      10
                           10
                    15 20
                  6
                             15
               7 21 35 35 21
             8 28 56 70 56 28
```