

```
1 #include <stdio.h>
2 #include <stdlib.h>
3
4 /* PROTOTIPOS */
5 long factorial(long);
6 long combinatorio(long, long);
7
8 /* FUNCION PRINCIPAL */
9 int main(void) {
10     long m, n, res;
11
12     puts("=====");
13     puts("      NUMEROS COMBINATORIOS      ");
14     puts("=====");
15
16     do {
17         printf("\nIntroduce el valor de m: ");
18         scanf("%ld", &m);
19         printf("Introduce el valor de n: ");
20         scanf("%ld", &n);
21     } while(m < 1 || n < 1 || n > m);
22
23     res = combinatorio(m, n);
24
25     printf("\nEl numero combinatorio de %ld y %ld es: %ld\n", m, n, res);
26
27     puts("");
28     system("pause");
29     return 0;
30 }
31
32 long combinatorio(long m, long n) {
33     long res;
34
35     res = (factorial(m))/(factorial(n) * factorial(m - n));
36
37     return res;
38 }
39
40 long factorial(long num) {
41     long res = 1;
42
43     while(num > 1) {
44         res *= num;
45         num--;
46     }
47
48     return res;
49 }
```