1.Design and Run
formula.c is used to receive and output result, if the input did not
follow the rules, the program would use nCr function circularly to solve
these problems. Since the formula is n!/((n-r)!*r!), nCr function will
calculate ^3 factorial. While n <= 12, there is no overflow problem.

2.Time Complexity
nCr function just calculate ^3 factorial, running time is O(n). The time
comlexity is O(n).
formula.c program in the loop use n times nCr function, the time
complexity is O(n^2).