formula

Time analysis of each function:

- 1. printFormula = O(n)
- 2. StringToInt = O(n)
- 3. nCr = O(n) because nCr was calculated using Factorial(n)/(Factorial(r)*Factorial(n-r))

$$= O(n + r + n-r) = O(n)$$

4. factorial = O(n)

Note:

I chose n=13 as the overflow point because 13! = 6227020800 which is greater than

2,147,483,647 (the largest number that fits in type int)