Challenge 8

Print all binomial coefficient

You're give a power n, print all binomial coefficient for that binomial.

What are binomial coefficients?

They are coefficient of each term of expanded form of $(a + b)^n$.

e.g., You have an expression $(a + b)^3$, *i.e., n = 3* then it's binomial coefficients will be

    1 3 3 1

because $(a + b)^3 = a^3 + 3a^2b + 3ab^2 + b^3$

Similarly for n = 4

    1 4 6 4 1

Input

You have to take a single as input n, which represent exponent(power) of binomial term.

e.g.,

    4

Output

You have to print all binomial coefficients separated with a space.

e.g.,

    1 4 6 4 1

Real example

Click here (It might be crappy, but please check)