

C, C++, DSA in depth

## Doubt class assignment-15



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$$\begin{array}{ccccccc}
 & & & & 1 & & \\
 & & & 1 & & 1 & \\
 & & 1 & & 2 & & 1 \\
 & 1 & & 3 & & 3 & & 1 \\
 & 1 & 4 & & 6 & & 4 & & 1 \\
 & 1 & 5 & & 10 & & 10 & & 5 & & 1 \\
 & 1 & 6 & & 15 & & 20 & & 15 & & 6 & & 1
 \end{array}$$

$$\begin{array}{ccccccc}
 & & & & {}^0C_0 & & \\
 & & & {}^1C_0 & & {}^1C_1 & \\
 & & {}^2C_0 & & {}^2C_1 & & {}^2C_2 \\
 & {}^3C_0 & & {}^3C_1 & & {}^3C_2 & & {}^3C_3 \\
 {}^4C_0 & & {}^4C_1 & & {}^4C_2 & & {}^4C_3 & & {}^4C_4
 \end{array}$$

$$(a+b)^6 = a^6 + 6a^5b + 15a^4b^2 + 20a^3b^3 + 15a^2b^4 + 6ab^5 + b^6$$