$$
\begin{aligned}
(p+q)^0 &= 1 \\
(p+q)^1 &= 1p^1q^0 + 1p^0q^1 \\
(p+q)^2 &= 1p^2q^0 + 2p^1q^1 + 1p^0q^2 \\
(p+q)^3 &= 1p^3q^0 + 3p^2q^1 + 3p^1q^2 + 1p^0q^3 \\
(p+q)^4 &= 1p^4q^0 + 4p^3q^1 + 6p^2q^2 + 4p^1q^3 + 1p^0q^4 \\
(p+q)^5 &= 1p^5q^0 + 5p^4q^1 + 10p^3q^2 + 10p^2q^3 + 5p^1q^4 + 1p^0q^5 \\
(p+q)^6 &= 1p^6q^0 + 6p^5q^1 + 15p^4q^2 + 20p^3q^3 + 15p^2q^4 + 6p^1q^5 + 1p^0q^6 \\
(p+q)^7 &= 1p^7q^0 + 7p^6q^1 + 21p^5q^2 + 35p^4q^3 + 35p^3q^4 + 21p^2q^5 + 7p^1q^6 + 1p^0q^7 \\
(p+q)^8 &= 1p^8q^0 + 8p^7q^1 + 28p^6q^2 + 56p^5q^3 + 70p^4q^4 + 56p^3q^5 + 28p^2q^6 + 8p^1q^7 + 1p^0q^8 \\
(p+q)^9 &= 1p^9q^0 + 9p^8q^1 + 36p^7q^2 + 84p^6q^3 + 126p^5q^4 + 126p^4q^5 + 84p^3q^6 + 36p^2q^7 + 9p^1q^9 + 1p^0q^9 \\
(p+q)^{10} &= 1p^{10}q^0 + 10p^9q^1 + 45p^8q^2 + 120p^7q^3 + 210p^6q^4 + 252p^5q^5 + 210p^4q^6 + 120p^3q^7 + 45p^2q^8 + 10p^1q^9 + 1p^0q^{10} \\
(p+q)^{11} &= 1p^{11}q^0 + 11p^{10}q^1 + 55p^9q^2 + 165p^8q^3 + 330p^7q^4 + 462p^6q^5 + 462p^5q^6 + 330p^4q^7 + 165p^3q^8 + 55p^2q^9 + 11pq^{10} + 1p^0q^{11}
\end{aligned}
$$