Coefficients for expansion of $(g(x)d/dx)^n\, g(x)$.

$$1_{0}$$

$$1_{01}$$

$$1_{0}1^{2} + 1_{0}{}^{2}{}_{2}$$

$$1_{0}1^{3} + 4_{0}{}^{2}{}_{12} + 1_{0}{}^{3}{}_{3}$$

$$1_{0}1^{4} + 11_{0}{}^{2}{}_{1}{}^{2}{}_{2} + 4_{0}{}^{3}{}_{2}{}^{2} + 7_{0}{}^{3}{}_{13} + 1_{0}{}^{4}{}_{4}$$

$$1_{0}1^{5} + 26_{0}{}^{2}{}_{1}{}^{3}{}_{2} + 34_{0}{}^{3}{}_{12}{}^{2} + 32_{0}{}^{3}{}_{1}{}^{2}{}_{3} + 15_{0}{}^{4}{}_{23} + 11_{0}{}^{4}{}_{14} + 1_{0}{}^{5}{}_{5}$$

$$1_{0}1^{6} + 57_{0}{}^{2}{}_{1}{}^{4}{}_{2} + 180_{0}{}^{3}{}_{1}{}^{2}{}_{2}{}^{2} + 122_{0}{}^{3}{}_{1}{}^{3}{}_{3} + 34_{0}{}^{4}{}_{2}{}^{3} + 192_{0}{}^{4}{}_{123} + 76_{0}{}^{4}{}_{1}{}^{2}{}_{4} + 15_{0}{}^{5}{}_{3}{}^{2} + 26_{0}{}^{5}{}_{24} + 16_{0}{}^{5}{}_{15} + 1_{0}{}^{6}{}_{6}$$

$$1_{0}1^{7} + 120_{0}{}^{2}{}_{1}{}^{5}{}_{2} + 768_{0}{}^{3}{}_{1}{}^{3}{}_{2}{}^{2} + 423_{0}{}^{3}{}_{1}{}^{4}{}_{3} + 496_{0}{}^{4}{}_{12}{}^{3} + 1494_{0}{}^{4}{}_{1}{}^{2}{}_{23} + 426_{0}{}^{4}{}_{1}{}^{3}{}_{4} + 294_{0}{}^{5}{}_{2}{}^{2}{}_{3} + 267_{0}{}^{5}{}_{13}{}^{2} + 474_{0}{}^{5}{}_{124} + 156_{0}{}^{5}{}_{1}{}^{2}{}_{5} + 56_{0}{}^{6}{}_{34} + 42_{0}{}^{6}{}_{25} + 22_{0}{}^{6}{}_{16} + 1_{0}{}^{7}{}_{7}$$

$$1_{0}1^{8} + 247_{0}{}^{2}{}_{1}{}^{6}{}_{2} + 2904_{0}{}^{3}{}_{1}{}^{4}{}_{2}{}^{2} + 1389_{0}{}^{3}{}_{1}{}^{5}{}_{3} + 4288_{0}{}^{4}{}_{1}{}^{2}{}_{2}{}^{3} + 9204_{0}{}^{4}{}_{1}{}^{3}{}_{23} + 2127_{0}{}^{4}{}_{1}{}^{4}{}_{4} + 496_{0}{}^{5}{}_{2}{}^{4} + 5946_{0}{}^{5}{}_{12}{}^{2}{}_{3} + 2829_{0}{}^{5}{}_{1}{}^{2}{}_{3}{}^{2} + 5142_{0}{}^{5}{}_{1}{}^{2}{}_{24} + 1206_{0}{}^{5}{}_{1}{}^{3}{}_{5} + 855_{0}{}^{6}{}_{23}{}^{2} +$$
$$768_{0}{}^{6}{}_{2}{}^{2}{}_{4} + 1344_{0}{}^{6}{}_{134} + 1038_{0}{}^{6}{}_{125} + 288_{0}{}^{6}{}_{1}{}^{2}{}_{6} + 56_{0}{}^{7}{}_{4}{}^{2} + 98_{0}{}^{7}{}_{35} + 64_{0}{}^{7}{}_{26} + 29_{0}{}^{7}{}_{17} + 1_{0}{}^{8}{}_{8}$$

$$1_{0}1^{9} + 502_{0}{}^{2}{}_{1}{}^{7}{}_{2} + 10194_{0}{}^{3}{}_{1}{}^{5}{}_{2}{}^{2} + 4414_{0}{}^{3}{}_{1}{}^{6}{}_{3} + 28768_{0}{}^{4}{}_{1}{}^{3}{}_{2}{}^{3} + 49569_{0}{}^{4}{}_{1}{}^{4}{}_{23} + 9897_{0}{}^{4}{}_{1}{}^{5}{}_{4} + 11056_{0}{}^{5}{}_{12}{}^{4} + 70206_{0}{}^{5}{}_{1}{}^{2}{}_{2}{}^{2}{}_{3} + 23349_{0}{}^{5}{}_{1}{}^{3}{}_{3}{}^{2} + 43422_{0}{}^{5}{}_{1}{}^{3}{}_{24} + 8157_{0}{}^{5}{}_{1}{}^{4}{}_{5} +$$
$$7930_{0}{}^{6}{}_{2}{}^{3}{}_{3} + 22680_{0}{}^{6}{}_{123}{}^{2} + 20838_{0}{}^{6}{}_{12}{}^{2}{}_{4} + 18864_{0}{}^{6}{}_{1}{}^{2}{}_{34} + 14988_{0}{}^{6}{}_{1}{}^{2}{}_{25} + 2934_{0}{}^{6}{}_{1}{}^{3}{}_{6} + 855_{0}{}^{7}{}_{3}{}^{3} + 4590_{0}{}^{7}{}_{234} + 1806_{0}{}^{7}{}_{2}{}^{2}{}_{5} + 1736_{0}{}^{7}{}_{14}{}^{2} + 3068_{0}{}^{7}{}_{135} + 2062_{0}{}^{7}{}_{126} +$$
$$491_{0}{}^{7}{}_{1}{}^{2}{}_{7} + 210_{0}{}^{8}{}_{45} + 162_{0}{}^{8}{}_{36} + 93_{0}{}^{8}{}_{27} + 37_{0}{}^{8}{}_{18} + 1_{0}{}^{9}{}_{9}$$