

Modern C++ Programming with Test-Driven Development

Code Better,
Sleep Better



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Author of Modern C++

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(a - b)^{13} = 13a^{12}b + 78a^{11}b^2 + 273a^{10}b^3 + 273a^9b^4 + 78a^8b^5 + 13a^7b^6$ $(a + b)^{13} + (a - b)^{13} = 13a^{12}b - 78a^{11}b^2 + 273a^{10}b^3 - 273a^9b^4 + 78a^8b^5 - 13a^7b^6$ $(a + b)^{14} - (a - b)^{14} = 14a^{13}b + 91a^{12}b^2 + 364a^{11}b^3 + 364a^{10}b^4 + 91a^9b^5 + 14a^8b^6$ $(a + b)^{14} + (a - b)^{14} = 14a^{13}b - 91a^{12}b^2 + 364a^{11}b^3 - 364a^{10}b^4 + 91a^9b^5 - 14a^8b^6$ $(a + b)^{15} - (a - b)^{15} = 15a^{14}b + 105a^{13}b^2 + 455a^{12}b^3 + 455a^{11}b^4 + 105a^{10}b^5 + 15a^9b^6$ $(a + b)^{15} + (a - b)^{15} = 15a^{14}b - 105a^{13}b^2 + 455a^{12}b^3 - 455a^{11}b^4 + 105a^{10}b^5 - 15a^9b^6$ $(a + b)^{16} - (a - b)^{16} = 16a^{15}b + 120a^{14}b^2 + 560a^{13}b^3 + 560a^{12}b^4 + 120a^{11}b^5 + 16a^{10}b^6$ $(a + b)^{16} + (a - b)^{16} = 16a^{15}b - 120a^{14}b^2 + 560a^{13}b^3 - 560a^{12}b^4 + 120a^{11}b^5 - 16a^{10}b^6$ $(a + b)^{17} - (a - b)^{17} = 17a^{16}b + 136a^{15}b^2 + 680a^{14}b^3 + 680a^{13}b^4 + 136a^{12}b^5 + 17a^{11}b^6$ $(a + b)^{17} + (a - b)^{17} = 17a^{16}b - 136a^{15}b^2 + 680a^{14}b^3 - 680a^{13}b^4 + 136a^{12}b^5 - 17a^{11}b^6$ $(a + b)^{18} - (a - b)^{18} = 18a^{17}b + 153a^{16}b^2 + 816a^{15}b^3 + 816a^{14}b^4 + 153a^{13}b^5 + 18a^{12}b^6$ $(a + b)^{18} + (a - b)^{18} = 18a^{17}b - 153a^{16}b^2 + 816a^{15}b^3 - 816a^{14}b^4 + 153a^{13}b^5 - 18a^{12}b^6$ $(a + b)^{19} - (a - b)^{19} = 19a^{18}b + 171a^{17}b^2 + 969a^{16}b^3 + 969a^{15}b^4 + 171a^{14}b^5 + 19a^{13}b^6$ $(a + b)^{19} + (a - b)^{19} = 19a^{18}b - 171a^{17}b^2 + 969a^{16}b^3 - 969a^{15}b^4 + 171a^{14}b^5 - 19a^{13}b^6$ $(a + b)^{20} - (a - b)^{20} = 20a^{19}b + 190a^{18}b^2 + 1140a^{17}b^3 + 1140a^{16}b^4 + 190a^{15}b^5 + 20a^{14}b^6$ $(a + b)^{20} + (a - b)^{20} = 20a^{19}b - 190a^{18}b^2 + 1140a^{17}b^3 - 1140a^{16}b^4 + 190a^{15}b^5 - 20a^{14}b^6$ $(a + b)^{21} - (a - b)^{21} = 21a^{20}b + 210a^{19}b^2 + 1287a^{18}b^3 + 1287a^{17}b^4 + 210a^{16}b^5 + 21a^{15}b^6$ $(a + b)^{21} + (a - b)^{21} = 21a^{20}b - 210a^{19}b^2 + 1287a^{18}b^3 - 1287a^{17}b^4 + 210a^{16}b^5 - 21a^{15}b^6$ $(a + b)^{22} - (a - b)^{22} = 22a^{21}b + 231a^{20}b^2 + 1430a^{19}b^3 + 1430a^{18}b^4 + 231a^{17}b^5 + 22a^{16}b^6$ $(a + b)^{22} + (a - b)^{22} = 22a^{21}b - 231a^{20}b^2 + 1430a^{19}b^3 - 1430a^{18}b^4 + 231a^{17}b^5 - 22a^{16}b^6$ $(a + b)^{23} - (a - b)^{23} = 23a^{22}b + 253a^{21}b^2 + 1641a^{20}b^3 + 1641a^{19}b^4 + 253a^{18}b^5 + 23a^{17}b^6$ $(a + b)^{23} + (a - b)^{23} = 23a^{22}b - 253a^{21}b^2 + 1641a^{20}b^3 - 1641a^{19}b^4 + 253a^{18}b^5 - 23a^{17}b^6$ $(a + b)^{24} - (a - b)^{24} = 24a^{23}b + 276a^{22}b^2 + 1872a^{21}b^3 + 1872a^{20}b^4 + 276a^{19}b^5 + 24a^{18}b^6$ $(a + b)^{24} + (a - b)^{24} = 24a^{23}b - 276a^{22}b^2 + 1872a^{21}b^3 - 1872a^{20}b^4 + 276a^{19}b^5 - 24a^{18}b^6$ $(a + b)^{25} - (a - b)^{25} = 25a^{24}b + 300a^{23}b^2 + 2145a^{22}b^3 + 2145a^{21}b^4 + 300a^{20}b^5 + 25a^{19}b^6$ $(a + b)^{25} + (a - b)^{25} = 25a^{24}b - 300a^{23}b^2 + 2145a^{22}b^3 - 2145a^{21}b^4 + 300a^{20}b^5 - 25a^{19}b^6$ $(a + b)^{26} - (a - b)^{26} = 26a^{25}b + 322a^{24}b^2 + 2431a^{23}b^3 + 2431a^{22}b^4 + 322a^{21}b^5 + 26a^{20}b^6$ $(a + b)^{26} + (a - b)^{26} = 26a^{25}b - 322a^{24}b^2 + 2431a^{23}b^3 - 2431a^{22}b^4 + 322a^{21}b^5 - 26a^{20}b^6$ $(a + b)^{27} - (a - b)^{27} = 27a^{26}b + 345a^{25}b^2 + 2730a^{24}b^3 + 2730a^{23}b^4 + 345a^{22}b^5 + 27a^{21}b^6$ $(a + b)^{27} + (a - b)^{27} = 27a^{26}b - 345a^{25}b^2 + 2730a^{24}b^3 - 2730a^{23}b^4 + 345a^{22}b^5 - 27a^{21}b^6$ $(a + b)^{28} - (a - b)^{28} = 28a^{27}b + 368a^{26}b^2 + 3024a^{25}b^3 + 3024a^{24}b^4 + 368a^{23}b^5 + 28a^{22}b^6$ $(a + b)^{28} + (a - b)^{28} = 28a^{27}b - 368a^{26}b^2 + 3024a^{25}b^3 - 3024a^{24}b^4 + 368a^{23}b^5 - 28a^{22}b^6$ $(a + b)^{29} - (a - b)^{29} = 29a^{28}b + 392a^{27}b^2 + 3327a^{26}b^3 + 3327a^{25}b^4 + 392a^{24}b^5 + 29a^{23}b^6$ $(a + b)^{29} + (a - b)^{29} = 29a^{28}b - 392a^{27}b^2 + 3327a^{26}b^3 - 3327a^{25}b^4 + 392a^{24}b^5 - 29a^{23}b^6$ $(a + b)^{30} - (a - b)^{30} = 30a^{29}b + 417a^{28}b^2 + 3640a^{27}b^3 + 3640a^{26}b^4 + 417a^{25}b^5 + 30a^{24}b^6$ $(a + b)^{30} + (a - b)^{30} = 30a^{29}b - 417a^{28}b^2 + 3640a^{27}b^3 - 3640a^{26}b^4 + 417a^{25}b^5 - 30a^{24}b^6$ $(a + b)^{31} - (a - b)^{31} = 31a^{30}b + 442a^{29}b^2 + 3961a^{28}b^3 + 3961a^{27}b^4 + 442a^{26}b^5 + 31a^{25}b^6$ $(a + b)^{31} + (a - b)^{31} = 31a^{30}b - 442a^{29}b^2 + 3961a^{28}b^3 - 3961a^{27}b^4 + 442a^{26}b^5 - 31a^{25}b^6$ $(a + b)^{32} - (a - b)^{32} = 32a^{31}b + 468a^{30}b^2 + 4284a^{29}b^3 + 4284a^{28}b^4 + 468a^{27}b^5 + 32a^{26}b^6$ $(a + b)^{32} + (a - b)^{32} = 32a^{31}b - 468a^{30}b^2 + 4284a^{29}b^3 - 4284a^{28}b^4 + 468a^{27}b^5 - 32a^{26}b^6$ $(a + b)^{33} - (a - b)^{33} = 33a^{32}b + 495a^{31}b^2 + 4620a^{30}b^3 + 4620a^{29}b^4 + 495a^{28}b^5 + 33a^{27}b^6$ $(a + b)^{33} + (a - b)^{33} = 33a^{32}b - 495a^{31}b^2 + 4620a^{30}b^3 - 4620a^{29}b^4 + 495a^{28}b^5 - 33a^{27}b^6$ $(a + b)^{34} - (a - b)^{34} = 34a^{33}b + 522a^{32}b^2 + 4968a^{31}b^3 + 4968a^{30}b^4 + 522a^{29}b^5 + 34a^{28}b^6$ $(a + b)^{34} + (a - b)^{34} = 34a^{33}b - 522a^{32}b^2 + 4968a^{31}b^3 - 4968a^{30}b^4 + 522a^{29}b^5 - 34a^{28}b^6$ $(a + b)^{35} - (a - b)^{35} = 35a^{34}b + 550a^{33}b^2 + 5320a^{32}b^3 + 5320a^{31}b^4 + 550a^{30}b^5 + 35a^{29}b^6$ $(a + b)^{35} + (a - b)^{35} = 35a^{34}b - 550a^{33}b^2 + 5320a^{32}b^3 - 5320a^{31}b^4 + 550a^{30}b^5 - 35a^{29}b^6$ $(a + b)^{36} - (a - b)^{36} = 36a^{35}b + 579a^{34}b^2 + 5676a^{33}b^3 + 5676a^{32}b^4 + 579a^{31}b^5 + 36a^{30}b^6$ $(a + b)^{36} + (a - b)^{36} = 36a^{35}b - 579a^{34}b^2 + 5676a^{33}b^3 - 5676a^{32}b^4 + 579a^{31}b^5 - 36a^{30}b^6$ $(a + b)^{37} - (a - b)^{37} = 37a^{36}b + 609a^{35}b^2 + 6042a^{34}b^3 + 6042a^{33}b^4 + 609a^{32}b^5 + 37a^{31}b^6$ $(a + b)^{37} + (a - b)^{37} = 37a^{36}b - 609a^{35}b^2 + 6042a^{34}b^3 - 6042a^{33}b^4 + 609a^{32}b^5 - 37a^{31}b^6$ $(a + b)^{38} - (a - b)^{38} = 38a^{37}b + 640a^{36}b^2 + 6412a^{35}b^3 + 6412a^{34}b^4 + 640a^{33}b^5 + 38a^{32}b^6$ $(a + b)^{38} + (a - b)^{38} = 38a^{37}b - 640a^{36}b^2 + 6412a^{35}b^3 - 6412a^{34}b^4 + 640a^{33}b^5 - 38a^{32}b^6$ $(a + b)^{39} - (a - b)^{39} = 39a^{38}b + 672a^{37}b^2 + 6824a^{36}b^3 + 6824a^{35}b^4 + 672a^{34}b^5 + 39a^{33}b^6$ $(a + b)^{39} + (a - b)^{39} = 39a^{38}b - 672a^{37}b^2 + 6824a^{36}b^3 - 6824a^{35}b^4 + 672a^{34}b^5 - 39a^{33}b^6$ $(a + b)^{40} - (a - b)^{40} = 40a^{39}b + 705a^{38}b^2 + 7240a^{37}b^3 + 7240a^{36}b^4 + 705a^{35}b^5 + 40a^{34}b^6$ $(a + b)^{40} + (a - b)^{40} = 40a^{39}b - 705a^{38}b^2 + 7240a^{37}b^3 - 7240a^{36}b^4 + 705a^{35}b^5 - 40a^{34}b^6$ $(a + b)^{41} - (a - b)^{41} = 41a^{40}b + 739a^{39}b^2 + 7661a^{38}b^3 + 7661a^{37}b^4 + 739a^{36}b^5 + 41a^{35}b^6$ $(a + b)^{41} + (a - b)^{41} = 41a^{40}b - 739a^{39}b^2 + 7661a^{38}b^3 - 7661a^{37}b^4 + 739a^{36}b^5 - 41a^{35}b^6$ $(a + b)^{42} - (a - b)^{42} = 42a^{41}b + 774a^{40}b^2 + 8088a^{39}b^3 + 8088a^{38}b^4 + 774a^{37}b^5 + 42a^{36}b^6$ $(a + b)^{42} + (a - b)^{42} = 42a^{41}b - 774a^{40}b^2 + 8088a^{39}b^3 - 8088a^{38}b^4 + 774a^{37}b^5 - 42a^{36}b^6$ $(a + b)^{43} - (a - b)^{43} = 43a^{42}b + 810a^{41}b^2 + 8520a^{40}b^3 + 8520a^{39}b^4 + 810a^{38}b^5 + 43a^{37}b^6$ $(a + b)^{43} + (a - b)^{43} = 43a^{42}b - 810a^{41}b^2 + 8520a^{40}b^3 - 8520a^{39}b^4 + 810a^{38}b^5 - 43a^{37}b^6$ $(a + b)^{44} - (a - b)^{44} = 44a^{43}b + 847a^{42}b^2 + 8958a^{41}b^3 + 8958a^{40}b^4 + 847a^{39}b^5 + 44a^{38}b^6$ $(a + b)^{44} + (a - b)^{44} = 44a^{43}b - 847a^{42}b^2 + 8958a^{41}b^3 - 8958a^{40}b^4 + 847a^{39}b^5 - 44a^{38}b^6$ $(a + b)^{45} - (a - b)^{45} = 45a^{44}b + 885a^{43}b^2 + 9402a^{42}b^3 + 9402a^{41}b^4 + 885a^{40}b^5 + 45a^{39}b^6$ $(a + b)^{45} + (a - b)^{45} = 45a^{44}b - 885a^{43}b^2 + 9402a^{42}b^3 - 9402a^{41}b^4 + 885a^{40}b^5 - 45a^{39}b^6$ $(a + b)^{46} - (a - b)^{46} = 46a^{45}b + 924a^{44}b^2 + 9852a^{43}b^3 + 9852a^{42}b^4 + 924a^{41}b^5 + 46a^{40}b^6$ $(a + b)^{46} + (a - b)^{46} = 46a^{45}b - 924a^{44}b^2 + 9852a^{43}b^3 - 9852a^{42}b^4 + 924a^{41}b^5 - 46a^{40}b^6$ $(a + b)^{47} - (a - b)^{47} = 47a^{46}b + 964a^{45}b^2 + 10308a^{44}b^3 + 10308a^{43}b^4 + 964a^{42}b^5 + 47a^{41}b^6$ $(a + b)^{47} + (a - b)^{47} = 47a^{46}b - 964a^{45}b^2 + 10308a^{44}b^3 - 10308a^{43}b^4 + 964a^{42}b^5 - 47a^{41}b^6$ $(a + b)^{48} - (a - b)^{48} = 48a^{47}b + 1005a^{46}b^2 + 10770a^{45}b^3 + 10770a^{44}b^4 + 1005a^{43}b^5 + 48a^{42}b^6$ $(a + b)^{48} + (a - b)^{48} = 48a^{47}b - 1005a^{46}b^2 + 10770a^{45}b^3 - 10770a^{44}b^4 + 1005a^{43}b^5 - 48a^{42}b^6$ $(a + b)^{49} - (a - b)^{49} = 49a^{48}b + 1047a^{47}b^2 + 11238a^{46}b^3 + 11238a^{45}b^4 + 1047a^{44}b^5 + 49a^{43}b^6$ $(a + b)^{49} + (a - b)^{49} = 49a^{48}b - 1047a^{47}b^2 + 11238a^{46}b^3 - 11238a^{45}b^4 + 1047a^{44}b^5 - 49a^{43}b^6$ $(a + b)^{50} - (a - b)^{50} = 50a^{49}b + 1090a^{48}b^2 + 11710a^{47}b^3 + 11710a^{46}b^4 + 1090a^{45}b^5 + 50a^{44}b^6$ $(a + b)^{50} + (a - b)^{50} = 50a^{49}b - 1090a^{48}b^2 + 11710a^{47}b^3 - 11710a^{46}b^4 + 1090a^{45}b^5 - 50a^{44}b^6$ $(a + b)^{51} - (a - b)^{51} = 51a^{50}b + 1134a^{49}b^2 + 12186a^{48}b^3 + 12186a^{47}b^4 + 1134a^{46}b^5 + 51a^{45}b^6$ $(a + b)^{51} + (a - b)^{51} = 51a^{50}b - 1134a^{49}b^2 + 12186a^{48}b^3 - 12186a^{47}b^4 + 1134a^{46}b^5 - 51a^{45}b^6$ $(a + b)^{52} - (a - b)^{52} = 52a^{51}b + 1179a^{50}b^2 + 12666a^{49}b^3 + 12666a^{48}b^4 + 1179a^{47}b^5 + 52a^{46}b^6$ $(a + b)^{52} + (a - b)^{52} = 52a^{51}b - 1179a^{50}b^2 + 12666a^{49}b^3 - 12666a^{48}b^4 + 1179a^{47}b^5 - 52a^{46}b^6$ $(a + b)^{53} - (a - b)^{53} = 53a^{52}b + 1225a^{51}b^2 + 13150a^{50}b^3 + 13150a^{49}b^4 + 1225a^{48}b^5 + 53a^{47}b^6$ $(a + b)^{53} + (a - b)^{53} = 53a^{52}b - 1225a^{51}b^2 + 13150a^{50}b^3 - 13150a^{49}b^4 + 1225a^{48}b^5 - 53a^{47}b^6$ $(a + b)^{54} - (a - b)^{54} = 54a^{53}b + 1272a^{52}b^2 + 13638a^{51}b^3 + 13638a^{50}b^4 + 1272a^{49}b^5 + 54a^{48}b^6$ $(a + b)^{54} + (a - b)^{54} = 54a^{53}b - 1272a^{52}b^2 + 13638a^{51}b^3 - 13638a^{50}b^4 + 1272a^{49}b^5 - 54a^{48}b^6$ $(a + b)^{55} - (a - b)^{55} = 55a^{54}b + 1320a^{53}b^2 + 14130a^{52}b^3 + 14130a^{51}b^4 + 1320a^{50}b^5 + 55a^{49}b^6$ $(a + b)^{55} + (a - b)^{55} = 55a^{54}b - 1320a^{53}b^2 + 14130a^{52}b^3 - 14130a^{51}b^4 + 1320a^{50}b^5 - 55a^{49}b^6$ $(a + b)^{56} - (a - b)^{56} = 56a^{55}b + 1369a^{54}b^2 + 14628a^{53}b^3 + 14628a^{52}b^4 + 1369a^{51}b^5 + 56a^{50}b^6$ $(a + b)^{56} + (a - b)^{56} = 56a^{55}b - 1369a^{54}b^2 + 14628a^{53}b^3 - 14628a^{52}b^4 + 1369a^{51}b^5 - 56a^{50}b^6$ $(a + b)^{57} - (a - b)^{57} = 57a^{56}b + 1419a^{55}b^2 + 15130a^{54}b^3 + 15130a^{53}b^4 + 1419a^{52}b^5 + 57a^{51}b^6$ $(a + b)^{57} + (a - b)^{57} = 57a^{56}b - 1419a^{55}b^2 + 15130a^{54}b^3 - 15130a^{53}b^4 + 1419a^{52}b^5 - 57a^{51}b^6$ $(a + b)^{58} - (a - b)^{58} = 58a^{57}b + 1470a^{56}b^2 + 15636a^{55}b^3 + 15636a^{54}b^4 + 1470a^{53}b^5 + 58a^{52}b^6$ $(a + b)^{58} + (a - b)^{58} = 58a^{57}b - 1470a^{56}b^2 + 15636a^{55}b^3 - 15636a^{54}b^4 + 1470a^{53}b^5 - 58a^{52}b^6$ $(a + b)^{59} - (a - b)^{59} = 59a^{58}b + 1522a^{57}b^2 + 16146a^{56}b^3 + 16146a^{55}b^4 + 1522a^{54}b^5 + 59a^{53}b^6$ $(a + b)^{59} + (a - b)^{59} = 59a^{58}b - 1522a^{57}b^2 + 16146a^{56}b^3 - 16146a^{55}b^4 + 1522a^{54}b^5 - 59a^{53}b^6$ $(a + b)^{60} - (a - b)^{60} = 60a^{59}b + 1575a^{58}b^2 + 16660a^{57}b^3 + 16660a^{56}b^4 + 1575a^{55}b^5 + 60a^{54}b^6$ $(a + b)^{60} + (a - b)^{60} = 60a^{59}b - 1575a^{58}b^2 + 16660a^{57}b^3 - 16660a^{56}b^4 + 1575a^{55}b^5 - 60a^{54}b^6$ $(a + b)^{61} - (a - b)^{61} = 61a^{60}b + 1629a^{59}b^2 + 17178a^{58}b^3 + 17178a^{57}b^4 + 1629a^{56}b^5 + 61a^{55}b^6$ $(a + b)^{61} + (a - b)^{61} = 61a^{60}b - 1629a^{59}b^2 + 17178a^{58}b^3 - 17178a^{57}b^4 + 1629a^{56}b^5 - 61a^{55}b^6$ $(a + b)^{62} - (a - b)^{62} = 62a^{61}b + 1684a^{60}b^2 + 17700a^{59}b^3 + 17700a^{58}b^4 + 1684a^{57}b^5 + 62a^{56}b^6$ $(a + b)^{62} + (a - b)^{62} = 62a^{61}b - 1684a^{60}b^2 + 17700a^{59}b^3 - 17700a^{58}b^4 + 1684a^{57}b^5 - 62a^{56}b^6$ $(a + b)^{63} - (a - b)^{63} = 63a^{62}b + 1740a^{61}b^2 + 18226a^{60}b^3 + 18226a^{59}b^4 + 1740a^{58}b^5 + 63a^{57}b^6$ $(a + b)^{63} + (a - b)^{63} = 63a^{62}b - 1740a^{61}b^2 + 18226a^{60}b^3 - 18226a^{59}b^4 + 1740a^{58}b^5 - 63a^{57}b^6$ $(a + b)^{64} - (a - b)^{64} = 64a^{63}b + 1797a^{62}b^2 + 18756a^{61}b^3 + 18756a^{60}b^4 + 1797a^{59}b^5 + 64a^{58}b^6$ $(a + b)^{64} + (a - b)^{64} = 64a^{63}b - 1797a^{62}b^2 + 18756a^{61}b^3 - 18756a^{60}b^4 + 1797a^{59}b^5 - 64a^{58}b^6$ $(a + b)^{65} - (a - b)^{65} = 65a^{64}b + 1855a^{63}b^2 + 19290a^{62}b^3 + 19290a^{61}b^4 + 1855a^{60}b^5 + 65a^{59}b^6$ $(a + b)^{65} + (a - b)^{65} = 65a^{64}b - 1855a^{63}b^2 + 19290a^{62}b^3 - 19290a^{61}b^4 + 1855a$

solution is solution with arithmetic and algebra numbers