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# Structured Basic

**John Castek**



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technique of top down design and structured programming as applied to the BASIC programming language It provides the tools to design programs that are both flexible and easily understood while paving the way for further computer language study Examples and exercises throughout the text cover a variety of disciplines including math business education and science Long meaningful variable names are used in all program examples giving students easy access to the rudiments of program design Design programs presented in pseudocode can be used in any problem solving situation for any programming language Includes chapter objectives extensive program examples along with complete designs of the solutions chapter summaries and end of chapter exercises and programming problems to aid students in problem solving skills

Basic Business Analysis and Operations Research R H Mole,2013-10-22 BASIC Business Analysis and Operations Research discusses how the Beginners All purpose Symbolic Instruction Code BASIC can be utilized in business analysis The book is comprised of seven chapters that tackle various topics about BASIC and business analysis Chapters 1 and 2 provide an overview of BASIC and Operations Research Chapter 3 covers index numbers and provides an introduction to programming in structured BASIC The book also presents programs for Data Fitting and then describes how a simple program can be developed to include progressive complexity The programs for a range of computational tasks are also presented The book also tackles Markov chains in the context of policies for preventative maintenance The text will be of great use to undergraduate students of management computer technology and science *Structured BASIC Programming* James Fred Clark,1983-01-01 **Getting Started with Structured BASIC** Nancy B. Stern,Robert A. Stern,1993-01-18 Provides detailed coverage of QBASIC and BASICA the two most popular versions of BASIC Concentrates on structural programming techniques which ensure that students learn how to program correctly This edition includes more programming exercises and a new appendix on advanced programming with QuickBASIC **Structured BASIC** Lawrence S. Orilia,2000 *Structured BASIC*. Clark,James Fred Clark,William O. Drum,1989

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web algebra formulas for class 8 here is the list of class 8 algebra formula  $a^2 - b^2 = (a + b)(a - b)$   $a^2 + 2ab + b^2 = (a + b)^2$   $a^2 - 2ab + b^2 = (a - b)^2$   $a^3 - b^3 = (a - b)(a^2 + ab + b^2)$   $a^3 + b^3 = (a + b)(a^2 - ab + b^2)$   $(a + b)^2 = a^2 + 2ab + b^2$   $(a - b)^2 = a^2 - 2ab + b^2$   $(a + b)^3 = a^3 + 3a^2b + 3ab^2 + b^3$   $(a - b)^3 = a^3 - 3a^2b + 3ab^2 - b^3$   $(a + b)(a - b) = a^2 - b^2$   $(a + b)^2 - (a - b)^2 = 4ab$   $(a + b)^3 - (a - b)^3 = 2(a + b)(a^2 + ab + b^2)$   $(a - b)^3 - (a + b)^3 = -2(a - b)(a^2 + ab + b^2)$   $(a + b)^2 + (a - b)^2 = 2(a^2 + b^2)$   $(a + b)^3 + (a - b)^3 = 2(a + b)(a^2 + ab + b^2)$   $(a - b)^3 + (a + b)^3 = 2(a - b)(a^2 + ab + b^2)$   $(a + b)^4 - (a - b)^4 = 4ab(a^2 + b^2)$   $(a + b)^5 - (a - b)^5 = 5a^4b + 10a^3b^2 + 10a^2b^3 + 5ab^4$   $(a - b)^5 - (a + b)^5 = -5a^4b - 10a^3b^2 - 10a^2b^3 - 5ab^4$   $(a + b)^6 - (a - b)^6 = 6a^5b + 15a^4b^2 + 20a^3b^3 + 15a^2b^4 + 6ab^5$   $(a - b)^6 - (a + b)^6 = -6a^5b - 15a^4b^2 - 20a^3b^3 - 15a^2b^4 - 6ab^5$   $(a + b)^7 - (a - b)^7 = 7a^6b + 21a^5b^2 + 35a^4b^3 + 35a^3b^4 + 21a^2b^5 + 7ab^6$   $(a - b)^7 - (a + b)^7 = -7a^6b - 21a^5b^2 - 35a^4b^3 - 35a^3b^4 - 21a^2b^5 - 7ab^6$   $(a + b)^8 - (a - b)^8 = 8a^7b + 28a^6b^2 + 56a^5b^3 + 56a^4b^4 + 28a^3b^5 + 8a^2b^6$   $(a - b)^8 - (a + b)^8 = -8a^7b - 28a^6b^2 - 56a^5b^3 - 56a^4b^4 - 28a^3b^5 - 8a^2b^6$   $(a + b)^9 - (a - b)^9 = 9a^8b + 36a^7b^2 + 84a^6b^3 + 84a^5b^4 + 36a^4b^5 + 9a^3b^6$   $(a - b)^9 - (a + b)^9 = -9a^8b - 36a^7b^2 - 84a^6b^3 - 84a^5b^4 - 36a^4b^5 - 9a^3b^6$   $(a + b)^{10} - (a - b)^{10} = 10a^9b + 45a^8b^2 + 120a^7b^3 + 120a^6b^4 + 45a^5b^5 + 10a^4b^6$   $(a - b)^{10} - (a + b)^{10} = -10a^9b - 45a^8b^2 - 120a^7b^3 - 120a^6b^4 - 45a^5b^5 - 10a^4b^6$   $(a + b)^{11} - (a - b)^{11} = 11a^{10}b + 55a^9b^2 + 165a^8b^3 + 165a^7b^4 + 55a^6b^5 + 11a^5b^6$   $(a - b)^{11} - (a + b)^{11} = -11a^{10}b - 55a^9b^2 - 165a^8b^3 - 165a^7b^4 - 55a^6b^5 - 11a^5b^6$   $(a + b)^{12} - (a - b)^{12} = 12a^{11}b + 66a^{10}b^2 + 220a^9b^3 + 220a^8b^4 + 66a^7b^5 + 12a^6b^6$   $(a - b)^{12} - (a + b)^{12} = -12a^{11}b - 66a^{10}b^2 - 220a^9b^3 - 220a^8b^4 - 66a^7b^5 - 12a^6b^6$   $(a + b)^{13} - (a - b)^{13} = 13a^{12}b + 78a^{11}b^2 + 286a^{10}b^3 + 286a^9b^4 + 78a^8b^5 + 13a^7b^6$   $(a - b)^{13} - (a + b)^{13} = -13a^{12}b - 78a^{11}b^2 - 286a^{10}b^3 - 286a^9b^4 - 78a^8b^5 - 13a^7b^6$   $(a + b)^{14} - (a - b)^{14} = 14a^{13}b + 91a^{12}b^2 + 364a^{11}b^3 + 364a^{10}b^4 + 91a^9b^5 + 14a^8b^6$   $(a - b)^{14} - (a + b)^{14} = -14a^{13}b - 91a^{12}b^2 - 364a^{11}b^3 - 364a^{10}b^4 - 91a^9b^5 - 14a^8b^6$   $(a + b)^{15} - (a - b)^{15} = 15a^{14}b + 105a^{13}b^2 + 462a^{12}b^3 + 462a^{11}b^4 + 105a^{10}b^5 + 15a^9b^6$   $(a - b)^{15} - (a + b)^{15} = -15a^{14}b - 105a^{13}b^2 - 462a^{12}b^3 - 462a^{11}b^4 - 105a^{10}b^5 - 15a^9b^6$   $(a + b)^{16} - (a - b)^{16} = 16a^{15}b + 120a^{14}b^2 + 560a^{13}b^3 + 560a^{12}b^4 + 120a^{11}b^5 + 16a^{10}b^6$   $(a - b)^{16} - (a + b)^{16} = -16a^{15}b - 120a^{14}b^2 - 560a^{13}b^3 - 560a^{12}b^4 - 120a^{11}b^5 - 16a^{10}b^6$   $(a + b)^{17} - (a - b)^{17} = 17a^{16}b + 136a^{15}b^2 + 680a^{14}b^3 + 680a^{13}b^4 + 136a^{12}b^5 + 17a^{11}b^6$   $(a - b)^{17} - (a + b)^{17} = -17a^{16}b - 136a^{15}b^2 - 680a^{14}b^3 - 680a^{13}b^4 - 136a^{12}b^5 - 17a^{11}b^6$   $(a + b)^{18} - (a - b)^{18} = 18a^{17}b + 153a^{16}b^2 + 765a^{15}b^3 + 765a^{14}b^4 + 153a^{13}b^5 + 18a^{12}b^6$   $(a - b)^{18} - (a + b)^{18} = -18a^{17}b - 153a^{16}b^2 - 765a^{15}b^3 - 765a^{14}b^4 - 153a^{13}b^5 - 18a^{12}b^6$   $(a + b)^{19} - (a - b)^{19} = 19a^{18}b + 171a^{17}b^2 + 873a^{16}b^3 + 873a^{15}b^4 + 171a^{14}b^5 + 19a^{13}b^6$   $(a - b)^{19} - (a + b)^{19} = -19a^{18}b - 171a^{17}b^2 - 873a^{16}b^3 - 873a^{15}b^4 - 171a^{14}b^5 - 19a^{13}b^6$   $(a + b)^{20} - (a - b)^{20} = 20a^{19}b + 190a^{18}b^2 + 960a^{17}b^3 + 960a^{16}b^4 + 190a^{15}b^5 + 20a^{14}b^6$   $(a - b)^{20} - (a + b)^{20} = -20a^{19}b - 190a^{18}b^2 - 960a^{17}b^3 - 960a^{16}b^4 - 190a^{15}b^5 - 20a^{14}b^6$   $(a + b)^{21} - (a - b)^{21} = 21a^{20}b + 210a^{19}b^2 + 1029a^{18}b^3 + 1029a^{17}b^4 + 210a^{16}b^5 + 21a^{15}b^6$   $(a - b)^{21} - (a + b)^{21} = -21a^{20}b - 210a^{19}b^2 - 1029a^{18}b^3 - 1029a^{17}b^4 - 210a^{16}b^5 - 21a^{15}b^6$   $(a + b)^{22} - (a - b)^{22} = 22a^{21}b + 231a^{20}b^2 + 1122a^{19}b^3 + 1122a^{18}b^4 + 231a^{17}b^5 + 22a^{16}b^6$   $(a - b)^{22} - (a + b)^{22} = -22a^{21}b - 231a^{20}b^2 - 1122a^{19}b^3 - 1122a^{18}b^4 - 231a^{17}b^5 - 22a^{16}b^6$   $(a + b)^{23} - (a - b)^{23} = 23a^{22}b + 253a^{21}b^2 + 1287a^{20}b^3 + 1287a^{19}b^4 + 253a^{18}b^5 + 23a^{17}b^6$   $(a - b)^{23} - (a + b)^{23} = -23a^{22}b - 253a^{21}b^2 - 1287a^{20}b^3 - 1287a^{19}b^4 - 253a^{18}b^5 - 23a^{17}b^6$   $(a + b)^{24} - (a - b)^{24} = 24a^{23}b + 276a^{22}b^2 + 1380a^{21}b^3 + 1380a^{20}b^4 + 276a^{19}b^5 + 24a^{18}b^6$   $(a - b)^{24} - (a + b)^{24} = -24a^{23}b - 276a^{22}b^2 - 1380a^{21}b^3 - 1380a^{20}b^4 - 276a^{19}b^5 - 24a^{18}b^6$   $(a + b)^{25} - (a - b)^{25} = 25a^{24}b + 300a^{23}b^2 + 1500a^{22}b^3 + 1500a^{21}b^4 + 300a^{20}b^5 + 25a^{19}b^6$   $(a - b)^{25} - (a + b)^{25} = -25a^{24}b - 300a^{23}b^2 - 1500a^{22}b^3 - 1500a^{21}b^4 - 300a^{20}b^5 - 25a^{19}b^6$   $(a + b)^{26} - (a - b)^{26} = 26a^{25}b + 325a^{24}b^2 + 1690a^{23}b^3 + 1690a^{22}b^4 + 325a^{21}b^5 + 26a^{20}b^6$   $(a - b)^{26} - (a + b)^{26} = -26a^{25}b - 325a^{24}b^2 - 1690a^{23}b^3 - 1690a^{22}b^4 - 325a^{21}b^5 - 26a^{20}b^6$   $(a + b)^{27} - (a - b)^{27} = 27a^{26}b + 351a^{25}b^2 + 1872a^{24}b^3 + 1872a^{23}b^4 + 351a^{22}b^5 + 27a^{21}b^6$   $(a - b)^{27} - (a + b)^{27} = -27a^{26}b - 351a^{25}b^2 - 1872a^{24}b^3 - 1872a^{23}b^4 - 351a^{22}b^5 - 27a^{21}b^6$   $(a + b)^{28} - (a - b)^{28} = 28a^{27}b + 378a^{26}b^2 + 2016a^{25}b^3 + 2016a^{24}b^4 + 378a^{23}b^5 + 28a^{22}b^6$   $(a - b)^{28} - (a + b)^{28} = -28a^{27}b - 378a^{26}b^2 - 2016a^{25}b^3 - 2016a^{24}b^4 - 378a^{23}b^5 - 28a^{22}b^6$   $(a + b)^{29} - (a - b)^{29} = 29a^{28}b + 406a^{27}b^2 + 2184a^{26}b^3 + 2184a^{25}b^4 + 406a^{24}b^5 + 29a^{23}b^6$   $(a - b)^{29} - (a + b)^{29} = -29a^{28}b - 406a^{27}b^2 - 2184a^{26}b^3 - 2184a^{25}b^4 - 406a^{24}b^5 - 29a^{23}b^6$   $(a + b)^{30} - (a - b)^{30} = 30a^{29}b + 435a^{28}b^2 + 2380a^{27}b^3 + 2380a^{26}b^4 + 435a^{25}b^5 + 30a^{24}b^6$   $(a - b)^{30} - (a + b)^{30} = -30a^{29}b - 435a^{28}b^2 - 2380a^{27}b^3 - 2380a^{26}b^4 - 435a^{25}b^5 - 30a^{24}b^6$   $(a + b)^{31} - (a - b)^{31} = 31a^{30}b + 465a^{29}b^2 + 2598a^{28}b^3 + 2598a^{27}b^4 + 465a^{26}b^5 + 31a^{25}b^6$   $(a - b)^{31} - (a + b)^{31} = -31a^{30}b - 465a^{29}b^2 - 2598a^{28}b^3 - 2598a^{27}b^4 - 465a^{26}b^5 - 31a^{25}b^6$   $(a + b)^{32} - (a - b)^{32} = 32a^{31}b + 496a^{30}b^2 + 2832a^{29}b^3 + 2832a^{28}b^4 + 496a^{27}b^5 + 32a^{26}b^6$   $(a - b)^{32} - (a + b)^{32} = -32a^{31}b - 496a^{30}b^2 - 2832a^{29}b^3 - 2832a^{28}b^4 - 496a^{27}b^5 - 32a^{26}b^6$   $(a + b)^{33} - (a - b)^{33} = 33a^{32}b + 528a^{31}b^2 + 3084a^{30}b^3 + 3084a^{29}b^4 + 528a^{28}b^5 + 33a^{27}b^6$   $(a - b)^{33} - (a + b)^{33} = -33a^{32}b - 528a^{31}b^2 - 3084a^{30}b^3 - 3084a^{29}b^4 - 528a^{28}b^5 - 33a^{27}b^6$   $(a + b)^{34} - (a - b)^{34} = 34a^{33}b + 561a^{32}b^2 + 3344a^{31}b^3 + 3344a^{30}b^4 + 561a^{29}b^5 + 34a^{28}b^6$   $(a - b)^{34} - (a + b)^{34} = -34a^{33}b - 561a^{32}b^2 - 3344a^{31}b^3 - 3344a^{30}b^4 - 561a^{29}b^5 - 34a^{28}b^6$   $(a + b)^{35} - (a - b)^{35} = 35a^{34}b + 595a^{33}b^2 + 3618a^{32}b^3 + 3618a^{31}b^4 + 595a^{30}b^5 + 35a^{29}b^6$   $(a - b)^{35} - (a + b)^{35} = -35a^{34}b - 595a^{33}b^2 - 3618a^{32}b^3 - 3618a^{31}b^4 - 595a^{30}b^5 - 35a^{29}b^6$   $(a + b)^{36} - (a - b)^{36} = 36a^{35}b + 630a^{34}b^2 + 3906a^{33}b^3 + 3906a^{32}b^4 + 630a^{31}b^5 + 36a^{30}b^6$   $(a - b)^{36} - (a + b)^{36} = -36a^{35}b - 630a^{34}b^2 - 3906a^{33}b^3 - 3906a^{32}b^4 - 630a^{31}b^5 - 36a^{30}b^6$   $(a + b)^{37} - (a - b)^{37} = 37a^{36}b + 666a^{35}b^2 + 4204a^{34}b^3 + 4204a^{33}b^4 + 666a^{32}b^5 + 37a^{31}b^6$   $(a - b)^{37} - (a + b)^{37} = -37a^{36}b - 666a^{35}b^2 - 4204a^{34}b^3 - 4204a^{33}b^4 - 666a^{32}b^5 - 37a^{31}b^6$   $(a + b)^{38} - (a - b)^{38} = 38a^{37}b + 703a^{36}b^2 + 4516a^{35}b^3 + 4516a^{34}b^4 + 703a^{33}b^5 + 38a^{32}b^6$   $(a - b)^{38} - (a + b)^{38} = -38a^{37}b - 703a^{36}b^2 - 4516a^{35}b^3 - 4516a^{34}b^4 - 703a^{33}b^5 - 38a^{32}b^6$   $(a + b)^{39} - (a - b)^{39} = 39a^{38}b + 741a^{37}b^2 + 4842a^{36}b^3 + 4842a^{35}b^4 + 741a^{34}b^5 + 39a^{33}b^6$   $(a - b)^{39} - (a + b)^{39} = -39a^{38}b - 741a^{37}b^2 - 4842a^{36}b^3 - 4842a^{35}b^4 - 741a^{34}b^5 - 39a^{33}b^6$   $(a + b)^{40} - (a - b)^{40} = 40a^{39}b + 780a^{38}b^2 + 5184a^{37}b^3 + 5184a^{36}b^4 + 780a^{35}b^5 + 40a^{34}b^6$   $(a - b)^{40} - (a + b)^{40} = -40a^{39}b - 780a^{38}b^2 - 5184a^{37}b^3 - 5184a^{36}b^4 - 780a^{35}b^5 - 40a^{34}b^6$   $(a + b)^{41} - (a - b)^{41} = 41a^{40}b + 820a^{39}b^2 + 5544a^{38}b^3 + 5544a^{37}b^4 + 820a^{36}b^5 + 41a^{35}b^6$   $(a - b)^{41} - (a + b)^{41} = -41a^{40}b - 820a^{39}b^2 - 5544a^{38}b^3 - 5544a^{37}b^4 - 820a^{36}b^5 - 41a^{35}b^6$   $(a + b)^{42} - (a - b)^{42} = 42a^{41}b + 861a^{40}b^2 + 5916a^{39}b^3 + 5916a^{38}b^4 + 861a^{37}b^5 + 42a^{36}b^6$   $(a - b)^{42} - (a + b)^{42} = -42a^{41}b - 861a^{40}b^2 - 5916a^{39}b^3 - 5916a^{38}b^4 - 861a^{37}b^5 - 42a^{36}b^6$   $(a + b)^{43} - (a - b)^{43} = 43a^{42}b + 903a^{41}b^2 + 6306a^{40}b^3 + 6306a^{39}b^4 + 903a^{38}b^5 + 43a^{37}b^6$   $(a - b)^{43} - (a + b)^{43} = -43a^{42}b - 903a^{41}b^2 - 6306a^{40}b^3 - 6306a^{39}b^4 - 903a^{38}b^5 - 43a^{37}b^6$   $(a + b)^{44} - (a - b)^{44} = 44a^{43}b + 946a^{42}b^2 + 6716a^{41}b^3 + 6716a^{40}b^4 + 946a^{39}b^5 + 44a^{38}b^6$   $(a - b)^{44} - (a + b)^{44} = -44a^{43}b - 946a^{42}b^2 - 6716a^{41}b^3 - 6716a^{40}b^4 - 946a^{39}b^5 - 44a^{38}b^6$   $(a + b)^{45} - (a - b)^{45} = 45a^{44}b + 990a^{43}b^2 + 7140a^{42}b^3 + 7140a^{41}b^4 + 990a^{40}b^5 + 45a^{39}b^6$   $(a - b)^{45} - (a + b)^{45} = -45a^{44}b - 990a^{43}b^2 - 7140a^{42}b^3 - 7140a^{41}b^4 - 990a^{40}b^5 - 45a^{39}b^6$   $(a + b)^{46} - (a - b)^{46} = 46a^{45}b + 1035a^{44}b^2 + 7578a^{43}b^3 + 7578a^{42}b^4 + 1035a^{41}b^5 + 46a^{40}b^6$   $(a - b)^{46} - (a + b)^{46} = -46a^{45}b - 1035a^{44}b^2 - 7578a^{43}b^3 - 7578a^{42}b^4 - 1035a^{41}b^5 - 46a^{40}b^6$   $(a + b)^{47} - (a - b)^{47} = 47a^{46}b + 1081a^{45}b^2 + 8028a^{44}b^3 + 8028a^{43}b^4 + 1081a^{42}b^5 + 47a^{41}b^6$   $(a - b)^{47} - (a + b)^{47} = -47a^{46}b - 1081a^{45}b^2 - 8028a^{44}b^3 - 8028a^{43}b^4 - 1081a^{42}b^5 - 47a^{41}b^6$   $(a + b)^{48} - (a - b)^{48} = 48a^{47}b + 1128a^{46}b^2 + 8496a^{45}b^3 + 8496a^{44}b^4 + 1128a^{43}b^5 + 48a^{42}b^6$   $(a - b)^{48} - (a + b)^{48} = -48a^{47}b - 1128a^{46}b^2 - 8496a^{45}b^3 - 8496a^{44}b^4 - 1128a^{43}b^5 - 48a^{42}b^6$   $(a + b)^{49} - (a - b)^{49} = 49a^{48}b + 1176a^{47}b^2 + 8976a^{46}b^3 + 8976a^{45}b^4 + 1176a^{44}b^5 + 49a^{43}b^6$   $(a - b)^{49} - (a + b)^{49} = -49a^{48}b - 1176a^{47}b^2 - 8976a^{46}b^3 - 8976a^{45}b^4 - 1176a^{44}b^5 - 49a^{43}b^6$   $(a + b)^{50} - (a - b)^{50} = 50a^{49}b + 1225a^{48}b^2 + 9468a^{47}b^3 + 9468a^{46}b^4 + 1225a^{45}b^5 + 50a^{44}b^6$   $(a - b)^{50} - (a + b)^{50} = -50a^{49}b - 1225a^{48}b^2 - 9468a^{47}b^3 - 9468a^{46}b^4 - 1225a^{45}b^5 - 50a^{44}b^6$   $(a + b)^{51} - (a - b)^{51} = 51a^{50}b + 1275a^{49}b^2 + 9972a^{48}b^3 + 9972a^{47}b^4 + 1275a^{46}b^5 + 51a^{45}b^6$   $(a - b)^{51} - (a + b)^{51} = -51a^{50}b - 1275a^{49}b^2 - 9972a^{48}b^3 - 9972a^{47}b^4 - 1275a^{46}b^5 - 51a^{45}b^6$   $(a + b)^{52} - (a - b)^{52} = 52a^{51}b + 1326a^{50}b^2 + 10488a^{49}b^3 + 10488a^{48}b^4 + 1326a^{47}b^5 + 52a^{46}b^6$   $(a - b)^{52} - (a + b)^{52} = -52a^{51}b - 1326a^{50}b^2 - 10488a^{49}b^3 - 10488a^{48}b^4 - 1326a^{47}b^5 - 52a^{46}b^6$   $(a + b)^{53} - (a - b)^{53} = 53a^{52}b + 1378a^{51}b^2 + 11016a^{50}b^3 + 11016a^{49}b^4 + 1378a^{48}b^5 + 53a^{47}b^6$   $(a - b)^{53} - (a + b)^{53} = -53a^{52}b - 1378a^{51}b^2 - 11016a^{50}b^3 - 11016a^{49}b^4 - 1378a^{48}b^5 - 53a^{47}b^6$   $(a + b)^{54} - (a - b)^{54} = 54a^{53}b + 1431a^{52}b^2 + 11556a^{51}b^3 + 11556a^{50}b^4 + 1431a^{49}b^5 + 54a^{48}b^6$   $(a - b)^{54} - (a + b)^{54} = -54a^{53}b - 1431a^{52}b^2 - 11556a^{51}b^3 - 11556a^{50}b^4 - 1431a^{49}b^5 - 54a^{48}b^6$   $(a + b)^{55} - (a - b)^{55} = 55a^{54}b + 1485a^{53}b^2 + 12108a^{52}b^3 + 12108a^{51}b^4 + 1485a^{50}b^5 + 55a^{49}b^6$   $(a - b)^{55} - (a + b)^{55} = -55a^{54}b - 1485a^{53}b^2 - 12108a^{52}b^3 - 12108a^{51}b^4 - 1485a^{50}b^5 - 55a^{49}b^6$   $(a + b)^{56} - (a - b)^{56} = 56a^{55}b + 1540a^{54}b^2 + 12676a^{53}b^3 + 12676a^{52}b^4 + 1540a^{51}b^5 + 56a^{50}b^6$   $(a - b)^{56} - (a + b)^{56} = -56a^{55}b - 1540a^{54}b^2 - 12676a^{53}b^3 - 12676a^{52}b^4 - 1540a^{51}b^5 - 56a^{50}b^6$   $(a + b)^{57} - (a - b)^{57} = 57a^{56}b + 1596a^{55}b^2 + 13256a^{54}b^3 + 13256a^{53}b^4 + 1596a^{52}b^5 + 57a^{51}b^6$   $(a - b)^{57} - (a + b)^{57} = -57a^{56}b - 1596a^{55}b^2 - 13256a^{54}b^3 - 13256a^{53}b^4 - 1596a^{52}b^5 - 57a^{51}b^6$   $(a + b)^{58} - (a - b)^{58} = 58a^{57}b + 1653a^{56}b^2 + 13848a^{55}b^3 + 13848a^{54}b^4 + 1653a^{53}b^5 + 58a^{52}b^6$   $(a - b)^{58} - (a + b)^{58} = -58a^{57}b - 1653a^{56}b^2 - 13848a^{55}b^3 - 13848a^{54}b^4 - 1653a^{53}b^5 - 58a^{52}b^6$   $(a + b)^{59} - (a - b)^{59} = 59a^{58}b + 1711a^{57}b^2 + 14450a^{56}b^3 + 14450a^{55}b^4 + 1711a^{54}b^5 + 59a^{53}b^6$   $(a - b)^{59} - (a + b)^{59} = -59a^{58}b - 1711a^{57}b^2 - 14450a^{56}b^3 - 14450a^{55}b^4 - 1711a^{54}b^5 - 59a^{53}b^6$   $(a + b)^{60} - (a - b)^{60} = 60a^{59}b + 1770a^{58}b^2 + 15060a^{57}b^3 + 15060a^{56}b^4 + 1770a^{55}b^5 + 60a^{54}b^6$   $(a - b)^{60} - (a + b)^{60} = -60a^{59}b - 1770a^{58}b^2 - 15060a^{57}b^3 - 15060a^{56}b^4 - 1770a^{55}b^5 - 60a^{54}b^6$   $(a + b)^{61} - (a - b)^{61} = 61a^{60}b + 1830a^{59}b^2 + 15684a^{58}b^3 + 15684a^{57}b^4 + 1830a^{56}b^5 + 61a^{55}b^6$   $(a - b)^{61} - (a + b)^{61} = -61a^{60}b - 1830a^{59}b^2 - 15684a^{58}b^3 - 15684a^{57}b^4 - 1830a^{56}b^5 - 61a^{55}b^6$   $(a + b)^{62} - (a - b)^{62} = 62a^{61}b + 1891a^{60}b^2 + 16322a^{59}b^3 + 16322a^{58}b^4 + 1891a^{57}b^5 + 62a^{56}b^6$   $(a - b)^{62} - (a + b)^{62} = -62a^{61}b - 1891a^{60}b^2 - 16322a^{59}b^3 - 16322a^{58}b^4 - 1891a^{57}b^5 - 62a^{56}b^6$   $(a + b)^{63} - (a - b)^{63} = 63a^{62}b + 1953a^{61}b^2 + 16974a^{60}b^3 + 16974a^{59}b^4 + 1953a^{58}b^5 + 63a^{57}b^6$   $(a - b)^{63} - (a + b)^{63} = -63a^{62}b - 1953a^{61}b^2 - 16974a^{60}b^3 - 16974a^{59}b^4 - 1953a^{58}b^5 - 63a^{57}b^6$   $(a + b)^{64} - (a - b)^{64} = 64a^{63}b + 2016a^{62}b^2 + 17640a^{61}b^3 + 17640a^{60}b^4 + 2016a^{59}b^5 + 64a^{58}b^6$   $(a - b)^{64} - (a + b)^{64} = -64a^{63}b - 2016a^{62}b^2 - 17640a^{61}b^3 - 17640a^{60}b^4 - 2016a^{59}b^5 - 64a^{58}b^6$   $(a + b)^{65} - (a - b)^{65} = 65a^{64}b + 2081a^{63}b^2 +$

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