
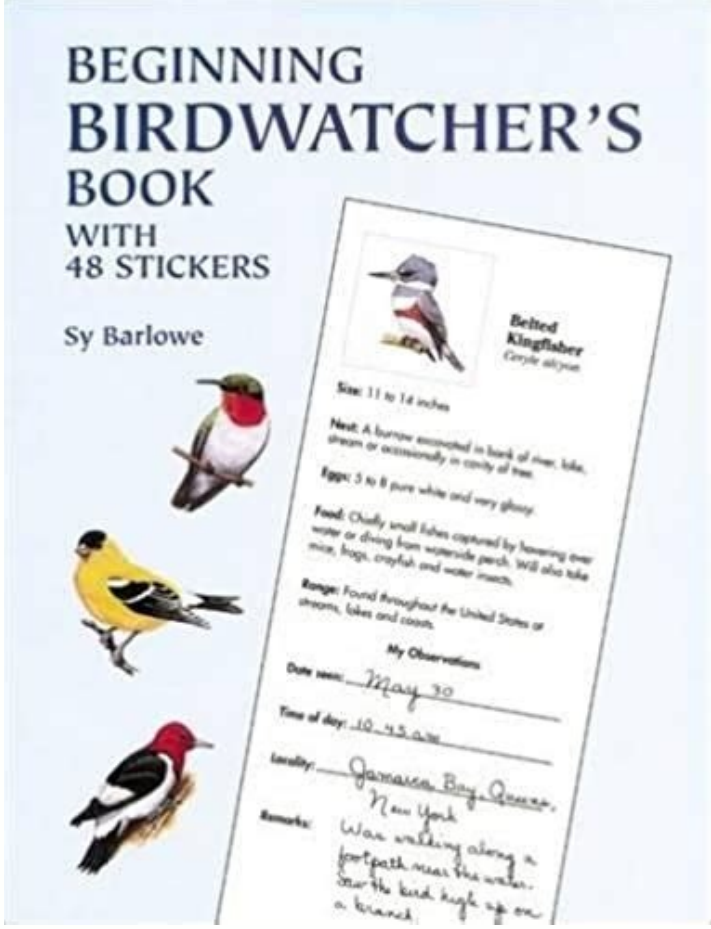
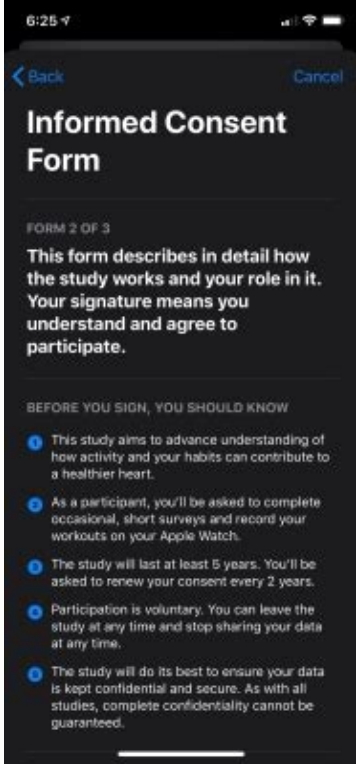


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Then click the mouse button, and move the cursor to create the arrow. There are several ways to display the Property Editor. `>>syms n x y >>diff(x^n) ans = n*x^(n-1) >>diff(log(x)) ans = 1/x >>diff((sin(x))^2) ans = 2*cos(x)*sin(x) >>diff(sin(y)) ans = cos(y)` If the expression contains more than one variable, the diff function operates on the variable `x` or the variable closest to `x`, unless told to do otherwise. We can use this linearity property to obtain a more generally useful algebraic solution in cases where the right-hand sides are all multiplied by the same scalar. In June? Another force `u(t)` also acts on the mass. For example, to load and play the WAVE file `chimes.wav` located in `C:\windows\media` on some Windows systems, you type `>>[y, Fs] = audioread('c:\windows\media\chimes.wav');` `>>sound(y, Fs)` You can also use the audioplayer and play functions instead of sound, as follows. 126 124 Compare this to `>>q = fun(3,7); >>x ???` The Insert Colorbar button inserts a color map strip in the graph and is useful for three-dimensional surface plots. Use this result to plot the distance of the fishing vessel from the fishing boundary as a function of time for $0 \leq t \leq 10$ hr. The abs function computes the absolute value. You can also use the mouse for these operations. Absolute values = [5.8310 5.0000 7.2801]. Adding Data to Axes The Plot Browser provides the mechanism by which you add data to axes. By default it displays in response to the up-arrow (↑) in the Command Window. 36 Example of Problem Solving Consider the following simple example of the steps involved in problem solving. Symbolic processing is the term used to describe how a computer performs operations on mathematical expressions in the way, for example that humans do algebra with pencil and paper. Problems.....Page 25420. Find the mean and variance of `z` by simulation, and compare the results with the theoretical prediction. Such an equation set is said to be overdetermined. The period of the sound wave is $P = 1/f$. Force `f` (lb) 0 100 200 300 400 500 600 700 800 Deflection `x` (in.) 0 0.15 0.23 0.35 0.37 0.5 0.57 0.68 0.77 ■ Solution The following MATLAB script file generates two plots on rectilinear axes. An engineer must design a large natural gas storage tank to be expandable to maintain the pressure constant at 2.2 atm. To see how to obtain a function `y = kx` that passes through the origin, see Problem 8. Use MATLAB to obtain equivalent state-model description of the system. For example, if you type `q = fun(3,7);` the value of `q` will be computed but not displayed. Click on Figure Properties to open the Property Editor—Figure dialog box to change certain properties of the figure. Compute the PI gains required to obtain the roots $s = -50 \pm 50j$. Test Your Understanding T9.1-2 Shipping costs and shipping times are reduced because the low hardware cost enables many local and small manufacturing centers to be established. function `yzero = fun_demo1(range) fun = @testfun; [yzero,value] = fzero(fun,range); % function y = testfun(x) y = (x.^2-4).*cos(x); end end A test session gives the following results. of 0.5, the output is the input minus the upper limit. For example, typing syms x is equivalent to typing x = sym('x'), and typing syms x y u v creates the four symbolic variables x, y, u, and v. An unfortunate result of the goto statement was confusing code, called spaghetti code, composed of a complex tangle of branches. Integrals that cannot be evaluated in closed form sometimes can be evaluated approximately by using a series representation for the integrand. In this case m should be greater than n. Before you give MATLAB instructions, make sure the cursor is located just after the prompt. If x0 is a vector of length 2, fzero assumes that x0 is an interval where the sign of function(x0(1)) differs from the sign of function(x0(2)). Persistent variables differ from global variables in that persistent variables are known only to the function in which they are declared. 15. Help Functions The functions help, lookfor, and doc can be used to display syntax information for a specified function. However, a glance at the surface plot will make this easy to determine. The first function should define the function V(t) for use with the fzero function. If the numeric array values correspond to valid locations, you may use a numeric array to extract the elements. Servo Motors Our examples thus far assumed that we are controlling a device by adjusting its voltage or current input. You win the game if you get two heads, lose if you get two tails, and flip again if you get one head and one tail. For example, to create an LTI object in state-model form for the system described by Equations (9.5-6) through (9.5-8), you type >>A = [0, 1; -5/2, -3/2]; B = [0; 1/2]; >>C = [1, 0]; D = 0; >>sys3 = ss(A,B,C,D); An LTI object defined using the tf function can be used to obtain an integral function to compute the integral and compare the answer with that obtained from the closed-form solution, which is $A = 0.9163$. Obtain a curve fit for P(T) from these data. (7.3-2) For example, to generate a vector y containing 2000 random numbers normally distributed with a mean of 5 and a standard deviation of 3, you type y = 3*randn(1,2000) + 5. Investigate the accuracy of this approximation by creating three plots. This methodology is introduced in Chapter 1. Traffic and Highway Engineering. 86 >>[quotient, remainder] = deconv(f,g) quotient = 1.5 -0.5833 remainder = 0 0 -0.5833 8.1667 The conv and deconv functions do not require that the polynomials be of the same degree, so we did not have to fool MATLAB as we did when adding the polynomials. Whenever possible, we wish to obtain solutions in closed form, because they give us greater insight into the problem. It is recognized as a symbolic variable because it is created with a symbolic expression. Solve the following matrix equation for the matrix C. The easiest way to find and replace variables or functions in the current file is to use the automatic highlighting feature. z = xor(x,y) T4.3-2 Suppose that $x = [-9, -6, 0, 2, 5]$ and $y = [-10, -6, 2, 4, 6]$. mesh(x,y,z) Creates a 3-D mesh surface plot. With vat photopolymerization, a liquid photopolymer in a vat is cured by light-activated cross-linking of adjoining polymer chains. The command gca returns the current axes for the current figure. 7.5 Summary This chapter introduces MATLAB functions that have widespread and important uses in statistics and data analysis. Chapter 11 covers symbolic methods for manipulating algebraic expressions and for solving algebraic and transcendental equations, calculus, differential equations, and matrix algebra problems. The speed drops below 250 when the disturbance torque starts to act, because the applied voltage is 0 at that time. The array is the basic building block in MATLAB. x y 0 2 5 6 10 11 (a) Find the coefficients c 1 and c 2 using the least-squares criterion. The resulting matrices X and Y contain the coordinate pairs of every point in the grid. The function returns a symbolic solution of the ode specified by the symbolic expression eqn. In this form the constant k is called the spring constant or elastic constant. Write a script file that accepts user input for d, L, and r and computes and displays C. MAT-files are binary files that are generally readable only by the software that created them. Plot the following function for x over the interval $-3.5 \leq x \leq 10$. Typing B = logical(A), 163 where A is a numeric array, returns the logical array B. function c2 = cossq(x) c2 = cos(x.^2); The integral function is called as follows: >>A = integral(@cossq,0,sqrt(2*pi)) The result is $A = 0.6119$. Figure 10.4-4 Simulink model for $v = (80/9)\cos(\pi t/100)$. We can often avoid the use of loops and branching and thus create simpler and faster programs by using a logical array as a mask that selects elements of another array. Other Menus The Desktop menu enables you to dock the Figure window within the desktop. The result is a column array that contains the polynomial roots. 20. 3.2 User-Defined Functions FUNCTION FILE LOCAL VARIABLE FUNCTION DEFINITION LINE Another type of M-file is a function file. An ordered sequence means that the instructions can be numbered, but an algorithm often must have the ability to alter the order of its instructions using what is called a control structure. How does your answer change if the ball weighs 2 lb? 1 2 3 4 5 Distance (mi) 560 440 490 530 370 Time (hr) 10.3 8.2 9.1 10.1 7.5 ■ Solution For example, the average speed on the first route is $560/10.3 = 54.4$ mi/hr. The vectors x and y contain the times and temperatures, respectively. Figure P13 145 14. Surface Plots of Implicit Functions In Section 5.2 we saw that an implicit function is a function in which we cannot isolate one variable in terms of the other. The design teams responsible for the various subsystems, such as aerodynamics, structures, hydraulics, and electrical systems, all had access to the same computer database that described the aircraft. For example, keeping two terms in the Taylor series expansion of $\cos x$ about $x = 0$ gives $\cos x \approx 1 - x^2/2$. 341 ■ Solution The coefficient matrix and the augmented matrix for this problem are Making the computations in MATLAB, we find that for $c = 9$, $\text{rank}(A) = \text{rank}([A \ b]) = 2$. A red dot will appear at line 5 between the line number and the code. The sort(A) function sorts each column of the array A in ascending order and returns an array the same size as A. The oscillations have a period of $2\pi/\omega$, and their amplitudes decay in time at a rate determined by τ , which is called the time constant. For the model shown in Figure 10.10-5 with a unit-step command input, let $m = 1$ and $T = 0.2$. Compute the PID gains required to obtain the roots $s = -10, -20 \pm 20j$. It is of obvious interest to see whether or not a comet's or asteroid's orbit will intersect that of a planet. (b) Because integral requires that the integrand function have only one argument, the following code will 363 not work. Perform array operations including addition, subtraction, multiplication, division, and exponentiation. 534, 541 Symbolic linear algebra functions Item Description Pages charpoly Returns the characteristic polynomial of a matrix. Compare the response for three cases: (a) $K \ p = 9$, $K \ I = 50$ (b) $K \ p = 9$, $K \ I = 25$ (c) $K \ p = 54$, $K \ I = 250$ 44. For example, typing student(2) name displays the value 'Mary Jones'. >>initial(sys3, [5, -2]) The plot shown in Figure 9.5-2 will be displayed on the screen. [0.5, 1.8, 0.8]) T2.3-4 Given the matrices 76 do the following by hand, then check your answer using MATLAB. Suppose the model is required to pass through a point not at the origin, say the point $(x \ 0, \ y \ 0)$ and that point is known to be an exact solution to the equation, so that $y \ 0 = mx \ 0 + b$. You may use more than one gtext command for a given plot. Does it make sense? The number of hours on each machine required to produce a product is given in the following table, along with the number of hours available per week on each type of machine. Usually the primary function is the only function in an M-file that you can call from the MATLAB command line or from another M-file function. Calculate the distance at closest approach to a lighthouse located at the coordinate origin (0, 0). To use the methods of this chapter, you must have either the Symbolic Math Toolbox or the Student Edition of MATLAB. Find a functional description of these data. Plot the estimate of the derivative dy/dx from the following data. If the name is unique, it is automatically completed. Use the eig(A) function to find the roots directly without finding the characteristic equation ("eig" stands for "eigenvalue," which is another term for "characteristic root"). ylabel('Angle (rad)'),gtext('Case 1'),gtext('Case 2') The results are shown in Figure 9.4-2. Its syntax is disp(A), where A represents a MATLAB variable name. Vectors as Arrays and *Advanced Data Structures 12. Double-click on it, and set the Switch-on and Switch-off points to 350 and 250, and set the Output when on and Output when off to 0 and 100. Figure 10.7-7 A network of RC loops. Table 1.1-4 lists them. Construct a`

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1, 27, 28-29 finite element analysis (FEA), 272 first-order differential equations, 402-409 flash drive, 25 flowcharts, 156, 157 fluid resistance, 462 folders, 25 forced response, 403 formatting commands, 16 forward difference estimate, 398 forward solution, 483, 551 free response, 403 function, 5-6 anonymous, 134, 135, 136-138 argument, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929,

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and then our sum lies in the range -1 to $+1$. Estimate the range of the expected result and compare it with your answer. For $A|B|$, if A is true, regardless of the value of B , the statement will evaluate to true. If it must accept a vector argument x and scalar y , and it must return a vector result. This technology would allow delivery of medical services to remote locations, and the technology would be available to the general public. From the following functions, you can select the one that you want to use. The following functions are available: `abs`, `abs2`, `abs3`, `abs4`, `abs5`, `abs6`, `abs7`, `abs8`, `abs9`, `abs10`, `abs11`, `abs12`, `abs13`, `abs14`, `abs15`, `abs16`, `abs17`, `abs18`, `abs19`, `abs20`, `abs21`, `abs22`, `abs23`, `abs24`, `abs25`, `abs26`, `abs27`, `abs28`, `abs29`, `abs30`, `abs31`, `abs32`, `abs33`, `abs34`, `abs35`, `abs36`, `abs37`, `abs38`, `abs39`, `abs40`, `abs41`, `abs42`, `abs43`, `abs44`, `abs45`, `abs46`, `abs47`, `abs48`, `abs49`, `abs50`, `abs51`, `abs52`, `abs53`, `abs54`, `abs55`, `abs56`, `abs57`, `abs58`, `abs59`, `abs60`, `abs61`, `abs62`, `abs63`, `abs64`, `abs65`, `abs66`, `abs67`, `abs68`, `abs69`, `abs70`, `abs71`, `abs72`, `abs73`, `abs74`, `abs75`, `abs76`, `abs77`, `abs78`, `abs79`, `abs80`, `abs81`, `abs82`, `abs83`, `abs84`, `abs85`, `abs86`, `abs87`, `abs88`, `abs89`, `abs90`, `abs91`, `abs92`, `abs93`, `abs94`, `abs95`, `abs96`, `abs97`, `abs98`, `abs99`, `abs100`. The following functions are available: `abs`, `abs2`, `abs3`, `abs4`, `abs5`, `abs6`, `abs7`, `abs8`, `abs9`, `abs10`, `abs11`, `abs12`, `abs13`, `abs14`, `abs15`, `abs16`, `abs17`, `abs18`, `abs19`, `abs20`, `abs21`, `abs22`, `abs23`, `abs24`, `abs25`, `abs26`, `abs27`, `abs28`, `abs29`, `abs30`, `abs31`, `abs32`, `abs33`, `abs34`, `abs35`, `abs36`, `abs37`, `abs38`, `abs39`, `abs40`, `abs41`, `abs42`, `abs43`, `abs44`, `abs45`, `abs46`, `abs47`, `abs48`, `abs49`, `abs50`, `abs51`, `abs52`, `abs53`, `abs54`, `abs55`, `abs56`, `abs57`, `abs58`, `abs59`, `abs60`, `abs61`, `abs62`, `abs63`, `abs64`, `abs65`, `abs66`, `abs67`, `abs68`, `abs69`, `abs70`, `abs71`, `abs72`, `abs73`, `abs74`, `abs75`, `abs76`, `abs77`, `abs78`, `abs79`, `abs80`, `abs81`, `abs82`, `abs83`, `abs84`, `abs85`, `abs86`, `abs87`, `abs88`, `abs89`, `abs90`, `abs91`, `abs92`, `abs93`, `abs94`, `abs95`, `abs96`, `abs97`, `abs98`, `abs99`, `abs100`. The following functions are available: `abs`, `abs2`, `abs3`, `abs4`, `abs5`, `abs6`, `abs7`, `abs8`, `abs9`, `abs10`, `abs11`, `abs12`, `abs13`, `abs14`, `abs15`, `abs16`, `abs17`, `abs18`, `abs19`, `abs20`, `abs21`, `abs22`, `abs23`, `abs24`, `abs25`, `abs26`, `abs27`, `abs28`, `abs29`, `abs30`, `abs31`, `abs32`, `abs33`, `abs34`, `abs35`, `abs36`, `abs37`, `abs38`, `abs39`, `abs40`, `abs41`, `abs42`, `abs43`, `abs44`, `abs45`, `abs46`, `abs47`, `abs48`, `abs49`, `abs50`, `abs51`, `abs52`, `abs53`, `abs54`, `abs55`, `abs56`, `abs57`, `abs58`, `abs59`, `abs60`, `abs61`, `abs62`, `abs63`, `abs64`, `abs65`, `abs66`, `abs67`, `abs68`, `abs69`, `abs70`, `abs71`, `abs72`, `abs73`, `abs74`, `abs75`, `abs76`, `abs77`, `abs78`, `abs79`, `abs80`, `abs81`, `abs82`, `abs83`, `abs84`, `abs85`, `abs86`, `abs87`, `abs88`, `abs89`, `abs90`, `abs91`, `abs92`, `abs93`, `abs94`, `abs95`, `abs96`, `abs97`, `abs98`, `abs99`, `abs100`. The following functions are available: `abs`, `abs2`, `abs3`, `abs4`, `abs5`, `abs6`, `abs7`, `abs8`, `abs9`, `abs10`, `abs11`, `abs12`, `abs13`, `abs14`, `abs15`, `abs16`, `abs17`, `abs18`, `abs19`, `abs20`, `abs21`, `abs22`, `abs23`, `abs24`, `abs25`, `abs26`, `abs27`, `abs28`, `abs29`, `abs30`, `abs31`, `abs32`, `abs33`, `abs34`, `abs35`, `abs36`, `abs37`, `abs38`, `abs39`, `abs40`, `abs41`, `abs42`, `abs43`, `abs44`, `abs45`, `abs46`, `abs47`, `abs48`, `abs49`, `abs50`, `abs51`, `abs52`, `abs53`, `abs54`, `abs55`, `abs56`, `abs57`, `abs58`, `abs59`, `abs60`, `abs61`, `abs62`, `abs63`, `abs64`, `abs65`, `abs66`, `abs67`, `abs68`, `abs69`, `abs70`, `abs71`, `abs72`, `abs73`, `abs74`, `abs75`, `abs76`, `abs77`, `abs78`, `abs79`, `abs80`, `abs81`, `abs82`, `abs83`, `abs84`, `abs85`, `abs86`, `abs87`, `abs88`, `abs89`, `abs90`, `abs91`, `abs92`, `abs93`, `abs94`, `abs95`, `abs96`, `abs97`, `abs98`, `abs99`, `abs100`. The following functions are available: `abs`, `abs2`, `abs3`, `abs4`, `abs5`, `abs6`, `abs7`, `abs8`, `abs9`, `abs10`, `abs11`, `abs12`, `abs13`, `abs14`, `abs15`, `abs16`, `abs17`, `abs18`, `abs19`, `abs20`, `abs21`, `abs22`, `abs23`, `abs24`, `abs25`, `abs26`, `abs27`, `abs28`, `abs29`, `abs30`, `abs31`, `abs32`, `abs33`, `abs34`, `abs35`, `abs36`, `abs37`, `abs38`, <

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