Title

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Pseudocode

main function() beg: Would you like to calculate an average for 1) Labs, 2) asssignments, 3) tests, 4) recitations, 5) the class, or 0) to quit? input x switch (x) case 0 quit case 1 double labs = function labs/assignments/tests(lab-average) Print ”Your average is ” lab-average break case 2 double assignments = function labs/assignments/tests(assignment-average) Print ”Your average is ” assignment-average break case 3 double tests = function labs/assignments/tests(test-average) print ”Your average is ” test-average break case 4 double recitation-average = recitation(recitation-average) print ”Your average is ” recitation-average break case 5 print ”Enter lab, assignment, recitation, and test weight double class = function class-average(lab-average, assignment-average, test-average, recitation-average) print ”Your class average is ” class break default goto beg
function labs/assignments/tests() print ”How many ” x ” in the class? input = stuff-number print ”Do the point values vary? 1) yes, 2) no” input yn switch (yn) case 1 same-average() case 2 different-average()
function recitation() Print ”Enter quiz weight” input quiz-weight quiz = labs/assignments/tests() Print ”Enter design weight” input design-weight design = labs/assignments/tests() Print ”Enter critique weight” critique = labs/assignments/tests() input critique-weight return 100*(critique*critique-weight)(quiz*quiz-weight)(design*design-weight)
function same-average(x) if x = 1 z = lab g = lab-average if x = 2 z = assignment g = assignment-average if x = 3 z = test g = test-average Print ”How many points is each ” z ” worth?” input points for (i=1; i ¡= stuff-number; i++) Print ”Enter points for each” z input earned numerator += earned denominator = stuff-number*points return 100*(numerator/denominator)
function different-average() for (i=1; i ¡= stuff-number; i++) Print ”How many points is ” x ” ” i ” worth?” input y denominator += y Print ”How many points did you get on ” x ” ” i ”?” input y numerator += y return 100*(numerator/denominator)
function class-average(x, y, z, q) Print ”Enter recitation weight” input recitation-weight Print ”Enter test weight” input test-weight Print ”Enter lab weight” input lab-weight Print ”Enter assignment weight” input assignment-weight return (lab-weight)*x + y*(assignment-average) + z*(test-average) + q*(recitation-average)