

Name, Surname :
 Number :
 Course Code :
 Course Name : Computer Programming I
 Exam : Quiz Midterm Final
 Date :12.11.2014

Please make sure to write your name and student number on paper that you have used

Question Number	1(30p)	2(20p)	3(20)	4(10p)	5(10p)	6(100p!!)	Total
Mark							

Note: Exam duration is 60 minutes only. You dont get any other paper.Please use your paper efficiently!

Questions

<p>1-(30p) Write a function integerPower(base, exponent) that returns the value of base^{exponent} For example, integerPower(3, 4) = 3 * 3 * 3 * 3.</p> <p>Assume that exponent is a positive, nonzero integer, and base is an integer. Function integerPower should use for to control the calculation. <u>Do not use any math library functions.</u></p> <p>2-(20p)Write a program that calculates and prints the average of several integers.</p> <p>Assume the last value read with scanf is the recognize 9999(clue:to exit loop). A typical input sequence might be 10 8 11 7 4 9999 indicating that the average of all the values preceding 9999 is to be calculated.</p> <p>Output:</p> <pre>Enter an integer (9999 to end): 1 Enter next integer (9999 to end): 2 Enter next integer (9999 to end): 3 Enter next integer (9999 to end): 4 Enter next integer (9999 to end): 5 Enter next integer (9999 to end): 6 Enter next integer (9999 to end): 9999 The average is: 3.50</pre>	<p>3-(20p) Write a program that calculates and prints the sum of the even integers from 2 to 30.</p> <p>4-(10p) What does the following program output and Explain the output coming from where? Only Output or wrong Explanation is zero point!</p> <pre>1 #include <stdio.h> 2 3 int main(void) 4 { 5 unsigned int x = 1, t = 0, y; 6 7 while (x <= 10) { 8 y = x * x; 9 printf("%d\n", y); 10 t =t + y; 11 x=x+1; 12 } 13 14 printf("t is %d\n", t); 15 }</pre> <p>5-(10p) Draw the flowchart of factorial</p> <p>6-(100p!!) <u>Write a function</u> that takes an integer value and returns the number with its digits reversed. For example, given the number 1938, the function should return 8391 as integer.</p>
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Yrd.Doç.Dr. Oğuz Ata