

Name, Surname :
 Number :
 Course Code : SENG114
 Course Name : Computer Programming II
 Exam : Make-up Midterm Final
 Date :10.06.2014



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

Question Number	1	2	3	4	Total
Mark					

Note: 1-Exam duration is 75 minutes only. 2-Read each question carefully.

Questions

Yrd.Doç.Dr. Oğuz Ata

<p>1-(40p) Class Distance represents a distance. It has a constructor that takes a <i>number</i> and either "cm" or "m" to set the distance in centimeter or meter, and member functions to get the value in either centimeter or meter. The class usage example is shown below. Write the Distance Class and its methodes</p> <pre>int main() { Distance x(6.0, "cm"), y(1.25, "m"),z; ///!constructor overloading!! cout << x.getMeter(); // 0.06 cout << y.getCm(); // 123.0 cout << z.getCm(); //0.0 return 0; }</pre> <p>2-(10p)Give an example that usage of <i>reverse iterator</i></p> <p>3-(10p)Give an example that <i>struct</i> usage</p>	<p>4-(40p) Explain the following code detailed. Dont miss anything. And write the output of the code.(if output is wrong, you dont gain any point)</p> <pre>#include "stdafx.h" #include<iostream> using namespace std; bool o(int x){ if (x%2==1) return true;else return false; } int F(unsigned int m, unsigned int n) { int s = 0; if (o(m)==true) { s = n;} while (m > 1) { m = m/2; n = 2*n; if (o(m)==true) { s += n;} } // while return s; } int _tmain(int argc, _TCHAR* argv[]) { cout << F(4,7)<<endl; cout << F(7,4)<<endl;; cout << F(8,3)<<endl;; cout << F(5,6)<<endl;; return 0; }</pre>
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