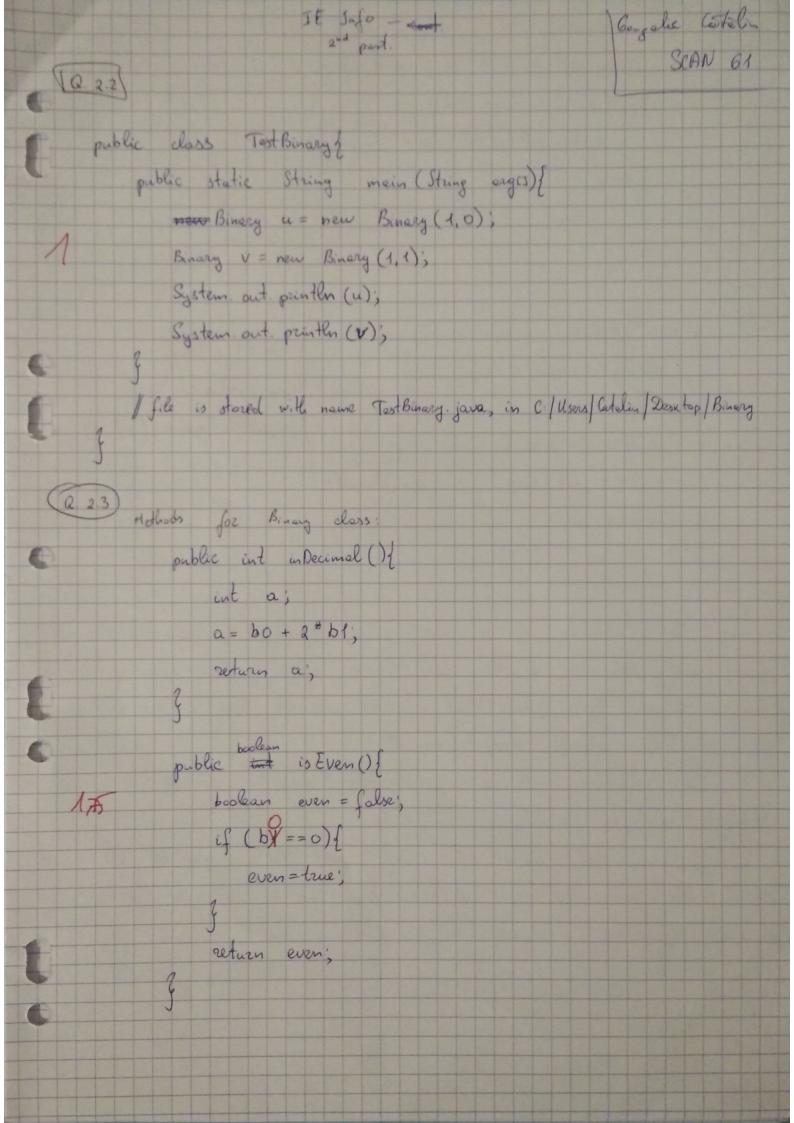


Q. 1.3 public static double (3 matrix Vector Roderet (double (1830, double (3 b)) double (3 e= new double [a. length]; for (int i=0; i < a. length; i++)} for lint joo; jeacis length; j++){ c[i] = c[i] + a ci][j] * b cj]; return c; public static double [3[3] matrix Product (double [3[3] a, double [3[3] b)) double [38] c = new double 15 5 [a length][b10]. length]; for (inti=0; i < a length; i++){ for (int j=0; j < b. length; j++)? Int matter dialy grading for (int K=0; K < big] length; K++)? We pefor to awith clizex = clisex + alisej * bljzex;

(Q15) public static double [3 solve System (double [] x, double [3 y) } double 13 & = new double [2]; double [JE] u = new double [x. length][2]; for (int i=0; i< x length; i++)? u[i][0] = x[i]; uci3[1] = \$ 1.0; doubless st = new doubless; 31 = matrix Product (invert Matrix (matrix Product (transpox Matrix (u), u)), matine Product (transposeMatrix (4), matrix Vector Product (transpox Motrix (u), y)); S[0] = S(0); S[1] = S1[13; return S; (216) public static double compute Error (double [3 x, double [3 y, double [3 s); double ezo; error =0; 15 for (int i=0; i < x length; i++){ enror = error + (yli] - SLO3 * xli] - SL13) * (yci] - SC0] *x[2] - SE13); return error;

(a. 17) public static main String main (String arg (3) ? double x = new double [63, 108, 22, 28, 42, 4.8, 6.25; double y = new double cos, 11.9, 21.7, 31.8, 42.0, 51.9, 61.8), double S = new double [2]; S = solve System (x, y); int orror = compute Error (x, y, s); System art. printly (Stat "a="+S[0]); System. out. println ("b="+SI13); System. out- printles (" Ezzoz is " + ezzor); 2. The return of the Binary (Q.21) public class Binary public int bo; public int b1; public Binary (int bo, tint b1){ this bo = bo; this b1 = b1; public Binary () 2 this bo = 0', this 51=0; public String lastring() { return 61 + "" + 60; If file with name Binary class, stored in C/Uxis/Catalin/Bextop/Binary



System out grintly ("The decimal form is" + u in Decimal (); If (u is Even () == true){ System out println (u + "The number is "even"); System out putter (" The number is odd"); (Q. 24) public Binary integer Tobinary (int v) { Not the idea! Binary u=new Binary(); Sa constructor u. bo = V % 2; jublic Binary (int a) u. b1 = (int) V: 2; double tmp = V22; u b1 = (int) tup; no interest! return u', (Q2.5) The addition of u and v are logically, my following the idea of finery and declaration of the class Binery, only if their some together don't exceed (11)2 (or (3)10), because otherwise they'll get out of the idea of binery computation. The The addition with 5 is already impossible because it exceeds the representation in 2 bots. If we still suppose that we can loose some the bits that exceed the representation in 2 bits, then we'll get a wrong answer represented in base 10.

Inflementation of and Sureger method of it follows the subvidoes poblic and Jolger public that add Julyer (throng v) { 5 V 60 = u 60 + V 60; V. 61 = u. 61 + u. 61; James V, her still that's not possible to public void add Integer (Binney v) 2 v. bo = this bo + v.bo; v. b1 = this b1 + v b1;