9N.cpp 2012-02-04

```
#include <iostream>
    #include <fstream>
2
    #include <cmath>
3
    #include <conio.h>
4
    #include <fstream>
5
    using namespace std;
6
    int i, j, k, n, m;
8
9
    double x,y,t,ss;
    double s[8], suma[8], p[5], xs[4], bs[4], zn[150], Aij[19][3], cov[3][3];
10
11
    double Transp(double A[19][3])
12
13
      { double Atr[6][19];
14
           for (int i=0; i<n; i++)
             { for(int j=0; j<m; j++)
15
                 Atr[j][i]=[i][j];
16
17
            return Atr[j][i];
18
19
     void Odwr(int W, dobue *tab, double *tabw)
20
      { int i,j,k,1,i2,k2,j2,12;
        for(i=0;i<W*W;i++)
21
            tabw[i]=tab[i];
22
          for(i=0,i2=0;i< W,i++,i2+=W+1)
23
          { tabw[i2]=1./tabw[i2];
24
             for(j0,j2=i;j<W;j++,j2+=W)
25
               {if(i!=i)
26
                   {tabw[j2]=tabw[j2]*tabw[i2];
27
                      for(k=0, k2=j2-i, 12=i2-i; k< w; k++, k2++, 12++)
28
                        { if(k!=i)
29
                          \{tabw[k2] -= tabw[j2]*tabw[12];
30
31
                            if(j==(W-1))
                               tabw[12]=-(tabw[12]*tabw[i2]);
32
33
                          if (W>1)
34
35
             for(k2=0; k2<g2-1; k2++)
               \{tabw[k2] = -(tabw[k2]*tabw[g2-1]); \}
36
37
38
      void Uklad()
39
      { for(m=1; m<=5; m++)
40
           {ss[Aij[m][m];
41
             for(j=m+1; j <= 5, j++)
42
             {bs[m]=bs[m]+zn[m];
43
               t=Aij[m][j];
44
               t=t/ss;
45
               bs[m]=bs[m]/fabs(t);
46
47
               Aij[m][j]=t;
                for(i=m+1;i<=4;i++)
48
                   Aij[i][j]=Aij[i][j]*Aijpi][m]*t;
49
            for (m=4; m>=1; m--)
50
            {ss=Aij[m][5];
51
             bs[m]=bs[m]/zn[m];
52
             for(j=m+1; j<=4; j++)
53
               ss=ss-Aij[m][j]*xs[j];
54
               bs[m]=bs[m]/(bs[m]+1.);
55
56
               xs[m]=ss;
            }
57
58
       int main()
59
       { double temp[3][19, tempp[3][3];
60
61
           temp[i][j]=Transp[Aij[19][6]);
           for(int i=0; i<6;i++)
62
```

9N.cpp 2012-02-04

```
for(int j=0; j<19; j++)
  63
                                                    { tempp[i][j]=0;
  64
                                                          for (int l=0; k<19; k++)
  65
                                                                tempp[i][j]+=A[i][k]*temp[k][j];
                                                                                                                                                                                                }
  66
  67
                                    Odwr(19,*tempp,*cov);
  68
                                    for(j=1; j<4;++)
  69
                                       \{xs[j]=0;
  70
  71
                                             p[j]=0;
                                              for(k=1; k<=6; k++)
  72
  73
                                                   Aij[j][k]=0;
                                                                                                              }
  74
                                       for(j=1;j<=7;j++)
  75
                                        {s[j]=0;}
  76
                                             suma[j]=0;
                        ifstream dane;
  77
                        dane.open("w.txt",ios::binary);
  78
  79
                        dane.seekg(0,ios::beg);
  80
                        for(j=1; j \le 150; j++)
  81
                        {s[1]=x;}
  82
                        for(i=2;i<=6;i++)
  83
                           s[i]=xs[i-1];
                        for(i=1;i<=6;i++)
  84
  85
                           suma[i]+=s[i];
                           p[1]=p[1]+y;
  86
  87
                           for(i=2;i<=4;i++)
                                 p[i]=p[i]+y*s[i-1];
  88
                                                                                                    }
  89
  90
                     Aij[1][1]=150;
                     for(i=1:i<=4:i++)
  91
                     { Aij[i][3]=p[i];
  92
                              for(j=1; j<=4; j++)
  93
                                     k=i+j;
  94
                                       if(k!=2)
  95
                                       Aij[i][j]=suma[k-2]; }
  96
  97
                     Uklad();
                     98
 99
100
                     std fstream dane;
                     dane.open ("wyniktxt", std::ios::out);
101
                     if(dane.good() == true)
102
              dane<< "f[x] = " << sa[1] << " + " << xs[2] << "x + " << xs[3] << "x^2 + x^3 + x^3 + x^4 + x^5 + x^5
103
                     for(i=1;i<150;i++)</pre>
104
                     { for(j=1;j<=3;j++)
105
                           {dane << "Macierz kowariancji " << cox[i][j] << endl;} }
106
                           dane.close();
107
                        return 0; }
108
109
110
111
112
113
114
115
116
```