#include catdio.ho #include catdib.ho #include catdib.ho
#define N 10
/* 行列入力 */ void input_matrix(double **e, char c, FILE *fin, FILE *fout);
/* ペクトルの入力 */ void input_vector(double %p, cher c, FILE *fin, FILE *fout); /* 行列の対象回路 */
double ""dmatrix(int nel, int ne2, int nl1, int nl2); /* 行列の機能解除 "/
void free_dmatris(Gouble **s, int nr2, int nr2, int nl2); /* ベクトル発動の機能 **/ double **dector(int 1, int 3);
/* WMMC/MIX */ void free_dvector(double *a, int i);
/ httpSEE */ int double_comp(comst void *sl , comst void *sl); / 最大语 / Au/offett s[mm] */
double vector_norm_max(double *a, int m, int n); /* ヤコビ法 */
double *jacobi_lin(double **a, double *b, double *x);
<pre>int main(void) { FILE **fin, **fowt; double ***a, **p, **s;</pre>
double **a, *b, *x; int i;
/* 行列的よびベクトルの領域確保 */ a = destrix(1, N, 3, N); /* 行列 a(1N)[(1N) */
a - dmatrix(1, N, 2, N); /* PEPE a(1N)[1N] */ b - dmatrix(1,N); /* b(1N) */ x - dmatrix(1,N); /* x(1N) */
/* ファイルのオープン */ if ((fin = Fopen("input_sp.dat", "r")) == MULL)
{ printf("ファイルが見つかりません, : imput_sp.det \n"); exit(1);
} if((fout = fopen("output_sp.dat", "w")) == NULL)
{ prints(*ファイルが存成できません : output_sp.ost \n"); exit(1);
)
input_matrix(a, 'A', fin, fout); /* 竹列 A の入田力 ヤ input_wattur(a, 'a', fin, fout); /* ペラトル a の入田力 ヤ input_wattur(x, 'a', fin, fout); /* / 四杯マトル sa の入田力 ヤ
x = jacobi_lin(a, b, x); /* ヤコピモ */
/* 結集の出力・*/ forintf fout, "Aceb の稿またの通りです"um"); for(1 = 1 ; 1 <= N ; 1 ==)
<pre>{ fgrintf(fout, "NF\n", x[i]); }</pre>
} fclose(fin); fclose(fout); /* ファイルのクローズ */
/* @BECARD */ free_dmatrin(a, 1, N, 1, N); free_dwactor(b, 2); free_dwactor(x, 2);
return 0;
) /* * * 건고라표 */
double "jacobi_lin(double ""a, double "b, double "x) {
double ess, *xm; int i, j, k=0;
xn = dvector(1,N); /* xn(1N) */ /* x <- x_k, xn <- x_(0+1) */
do {
for(1 = 1; 1 <= N; 1==) {
for (5 = 1; 5 <= N; 5 ==) {
xn[1] -= a[1][j]*n[j];) xn[1] -= a[1][[i]*n[j]; /* 未知之队 吃分を加える */
xn[i] /= a[i][i];
for $(i-1)$ $i \in N_1$ $(i+1)$ $x(i) = xx(i) - xx(i)$ $x(i) = x(i)$ $x(i)$ $x(i) = x(i)$ $x(i) = x(i$
K++; Jumile(eps > EFS SE k < KFURK);
free_svector(xm, 1); /* 福城の蘇龍 */ if (k == XMAX)
{ prints("確定が見つかりませんでした\n"); exit(1);
) else
{ printf("夜周田納はse 田です\n", k); /" 反原巴納を極極に表示 "/ return x;
1
/* a[1H][1H] (0)A71 */ void input_matrix(double **a, char c, FILE *fin, FILE *fout)
(int 1, 3)
fprintf(fout, " f : f %% (i 2 h 2 h 3 h 3 h 3 h 7
{ for (5 = 2; 5 <= N; 5++) {
fscanf(fin, "MiF", &m[1][]]); fprintf(fout, "MS.2F\t", a[1][]);
<pre>fprintf(fout, "in"); } </pre>
/* b[1NXDAJ */
<pre>void input_vector(double *b, char c, FILE *fis, FILE *fout) { int i;</pre>
fprintf(fout, "ベクトルな はなの連りです\n", c);
3 13 13 13 13 13 13 13 13 13 13 13 13 13
for(i = 1; i <= N; i++){
for(1 = 1,1 for Ng 1=N) for(2 = 1,1 for Ng 1=N) for(4 = 1,1 for Ng 1=N) for(4 = 1,1 for Ng 1=Ng 1) graint(fout, "Nd 1=1,1 for Ng 1) }
force 1 1; i = N0; i=N); (senting, N0; i=N(1)); (print(force, Nor', N(1)); (print(force, Nor');)) obsole **Monetricite or, but wil, but mil, but mil)
(m(1 - 1) 1 - m (1 - m) (- m)
<pre>fo(1 1); i = N0; 4=N); final(2m, NDM, ND(1)); final(2m, NDM, ND(1)); final(2m, ND(1)); final(2m, ND(1)); } audit "ND(1); iii ii, rem, rem; iiii ii, rem, rem; iiiiiii iiiiiiiiiiiiiiiiiiiiiiiiiiii</pre>
for(1 1); (= N); (==);
for(-1 1) 1 = N0 (-1) for(-1 1) 1 = N0 (-1) for(-1 1) 2 = N0 (-1) for(-1 1) 3 = N0 (-1) for(-1 1) 3 = N0 (-1) for(-1 1) 3 = N0 (-1) 3 = N0 (-1) for(-1 1) 3 = N0 (-1) 3 = N0 (-1) 3 = N0 for(-1 1) 3 = N0 (-1) 3 = N0 (-1) 3 = N0 (-1) 3 for(-1 1) 3 = N0 (-1) 3 = N0 (-1) 3 = N0 (-1) 3 for(-1 1) 3 = N0 (-1) 3 = N0 (-1) 3 = N0 (-1) 3 for(-1 1) 3 = N0 (-1) 3 = N0 (-1) 3 = N0 (-1) 3 for(-1 1) 3 = N0 (-1) 3 = N0 (-1) 3 for(-1 1) 3 = N0 (-1) 3 = N0 (-1) 3 for(-1 1) 3 = N0 (-1) 3 = N0 (-1) 3 for(-1 1) 3 = N0 (-1) 3 = N0 (-1) 3 for(-1 1) 3 = N0 (-1) 3 = N0 (-1) 3 for(-1 1) 3 = N0 (-1) 3
for(1 1) i = N0 i=N)
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(** 1) 1 (** 10) 4**() *********************************
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force 1 1 0 0 0 0
force 1 1 1 1 1 1 1 1 1
################
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(1 - 1) i c No inc) **cartificat, "No", \$0(1)) **cartificat, "No") **cartification "* *
force 1 1 1 1 1 1 1 1 1
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Force 1 1 1 1 1 1 1 1 1
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(1 - 1) i = No 1-10 ### (1 - 10
#########################
(
(1 - 1) i = No 1-10 **Grant (1 - 10 **Grant (1 -
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