#include critic.hb minclude critili.hb #include cathib.b
/- MR009W -/
double func(double x); double mout(double x); / 民俗問題 */ int finelic comp( cont void *sl , cont void *sl );
int deable_comp( censt void *si , comst void *si ); /* 最大度 // 从の計算 a[mm] */ doable votor_name( doable *sa , int w, int n ); /* [7] 河南南西南南 // (1)
double ""dnutrix(int nr1, int nr2, int nl1, int nl2);
/ Il recommental void free plants (educing the first first first file) / ペラト(株成の画像 ケ downlar footcare(fast i, int j)) / 南極の報象 ケ downlar footcare(fast i, int j)) / 南極の報象 ケ / / / / / / / / / / / / / / / / / /
/* MRGGREST (18 to 1)
double "Tonkiesky_decompt double "To, lat a ];  'M NET LIVE 4 - 分解を再用して選定一次方理性を解く "/ double "cholesky_solve( double "Ta, double "b, int a );
/* 境界個別題を解く #/ double *byp(double *b, double al, double al, double al, double al, double wm, int a, double (*f)(double) );
Set 1, n     Set 1, n     Set 4, n     Set 5, n     Set 6, n     Second (**を取扱 カ カル・マ ガスレーン*)
scanf("Nd",An);
w = director( 1, n-1 ); w = bop( u, 0.0, 1.0, 0.0, 0.0, n, fusc ); h = 1.0 / n;
print(「別める音え u と開催の最大値 e は次の達しですい。」) for ( 1 = 1; i c m-1; i i i ) print(「a[m]) print("(a[m]) prin
/*
return 0; }
/* 境界被問題を解く */ double *bp(double *b, double al, double al, double u0, double un, int s, double (*f)(double) )
double b, b2, **s; /* 区間に [s1, s2] */ Set 1, j1 /* so 2 on は現界値 */ b s (s)-sk/ce /* 目的話 */
h = (a2-a1)n; /* 別の帽 */ h2 = h*h; a = destrix( 2, n-1, 1, n-1 ); /* 解設門列 */
/* 性勞即性成 */ for ( i = 2; i <= n=2; i== )
{     for ( j = 1; j <= n-1; j++)         (
for () = 31 j cm n-12 j++ ) ( = (11[5] = 0.0; ) a(1][1] = 2.0; a(1][4:2] = -1.0; a[1][4:1] = -1.0;
) for $( \ \ \ \ \ ) = \{ 1, \ \ \ \ \ \ \ \ \ \ ) = \{ 1, \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $
for ( ) = 1; ) (= n-0; )++ ) a(n-1)(1) = 0.0; a(n-1)(n-2) = -1.0; a(n-1)(n-1) = 2.0;
/* 本面でクトの作成 */ for ( i = i; i <= n-i ; i += ) b[i] = b2 * (*f)( ai = b*i ) ; b[i] (= o0; b[s-1] == os;
/* 博匠コレスキー分解 */ * * deloksy_ecomp( a, **1 ); * * Gallorsy_ecomp( a, **1 ); * W匠コレスキー分解を利用して協立一次方程式を解く */ b * chalasky_ecle( a, b, **1 );
/* WERODANE */ free_dmatrix( a, 1, n-1, 1, n-1); return b; }
2 /* 開股の定義 */ double func(double x)
debute func(debute x) (   return( 20.0***** )
double exact(double x)
{     return( x - pow(x,5.0) );     } }
double ""cholesky_decomp( double "Ta, Lat n )
( fat i, j, k; double top)
for( 1 = 2: 1 c= n: 1++)
{     for( j = 1; j (= ±:1; j++)     {         tep = 0.0;     }
$ \begin{array}{c} \sup = 0.05 \\ \text{for}  (k = 3) \ k \in s - (3) \ k + n \\ \end{array} $ $ \left\{ \begin{array}{c} 0 \\ \text{top} = n \in \{1/k\}^n \{1/k\}^n \{1/k\}^n \{1/k\}^n \} \\ \end{array} \right. $
a[1][5] = (a[1][5] - tmp) / a[5][5];
tmp = 0.0; for ( k = 1; k <= 5-1; k++) {
{     tmp += a[1][k]*a[1][k]*a[k][k]; } a[1][[1] = a[1][1] - tmp;
) return a; }
double "cholesty_solve( double "*a, double "b, int a ) {
int i, j; double tmp;
/" (by = b "/ b[1] = b[1]/a[1][1]; for( 1 = 2; 1 <= n; 1++)
tmp = 0.0; ford f = 1: 1 <= 1-1: 1++)
1
b(i) = ( b(i) - tmp ) / a(i)(i); }
/* L*t x = y */ for( 1 = n-1; 1 >= 1; 1) (
{     tap = 0.0;     for{
{     tep += a[j][i] * b[j]; } b[i] = b[i] - tep;
) return b; }
double ""destrix(int ori, int ori, int all, int all)
( int i, nrow, scol; double **a;
mrow = nm2 - mm1 + 1; /* 行の数 */ mcol = n12 - m11 + 1; /* 列の数 */
/* 行の確保 */ if ((a = malloc(nrow * sizeof(double *))) == MULL)
( printf("メモリが確保できません (特別 a)\n"); exit(1);
- a - nci; /* 日本すらす */  - * ** ** ****************************
/* 例の確保 */ for (i = nd); i = nd); is) (ii) = min(con) * iten((onle)); for (i = nd); i = nd); i = nd); (ii) = nd); i = nd); i = nd); (iii) = nd); i = nd); i = nd); i = nd); (iii) = nd); i = nd); i = nd); (iii) = nd); i = nd); i = nd); i = nd); (iii) = nd); i = nd); i = nd); i = nd); i = nd); (iii) = nd); i = n
#(1) = #(1) - hl; /* 列を守らす。/ reture (4);
)  void free_destris(double ***, int not, int not, int niz)
( feet 4;
/* メモリの報題 */ for (4 = mt); 4 < mo2; 4+> free{(val (4) = 43)); free((val (4) + 43)); free((val (*)(+ + re1));
free((void *)(e + nrl)); }
double "dvector(int i, int j) /" e[i]~a[j] ②領域を翻译 */ {
if ((a = malloc((([ - i + 1) * sizeof(double)))) == NULL)
( printf("メモリが確保できません (from dwester) \n"); exdt(1);
) return (a - 1);
) void free_dwetter(double *a, int i) f
{     free((void *)(a + i)); /* (void *) 型への中々ストが必要 */ }
/* 比較問致 (昆崎) */ int double_comp(comet void *a1, comet void *a2) /
{     const deable al = "((deable *)s1); /* (deable *) \hat\neq \tau \tau \tau \tau \tau \tau \tau \tau
{ return -1;
} else if (el == ez) {
return 0; ) wine
return 1;
} /* 最末僅/形态計算 a[mm] */ double vector_morm_mux(double *a, fort m, feet n)
double vector_norm_max(double *a, int m, int m) {     int i, tmp;     tmp = n - m + ii /* 全事类的创新 */
( int i, top; top - n + i; /* 全更是から計画 // ( for(1 + n) i + n) + (i)   for(i)   for(
return s[e]: