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```
#ifndef _LINSYS_H
#define _LINSYS_H

int gmres(double **H,double **band,double x[],
          double b[],int m,int precondition,int n,int max_iter,
          double tol,double *pivots);
int bicgstab(double **band,double x[],double b[],
             int n,int max_iter,double tol,int precondition,double *
             pivots);
void Diagonal_Precond(double **band, int n,
                     double *pivots);
void ILU_Precond(double **band, int n,double *pi
                 vots);
int Chol_Allocation(int);
void Chol_Liberation();
void Cholesky(double*, int);
void InverseCholesky(double*, int);
void Resolution(double*, double*, double*, int);
#endif
```

References