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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 *pivots);
void mv_product(int n,double **band,double b[],double x[]);
#endif
```

References