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

References