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```
Help
#ifndef __tool_box__
#define __tool_box__
#include <stdlib.h>
#include <stdio.h>
#include <string.h>
#include <math.h>
#include <assert.h>
#include "pnl/pnl_mathtools.h"
#include "pnl/pnl_vector.h"
typedef struct X_Grid
  double Bnd_Left;
  double Bnd Right;
  double step;
  int N;
}X Grid;
extern X_Grid * x_grid_create(double dBnd_Left,double dBnd_
    Right, int dN);
extern double x_grid_point(X_Grid *grid ,int i);
// Math tools
extern void progonka(int N, const double low, const
    double diag, const double up,
                     const PnlVect * right side, PnlVect *
    result);
extern void quadratic_interpolation(double Fm1, double F0,
    double Fp1, double Xm1, double X0, double Xp1, double X, double * FX,
    double * dFX);
// All these functions ara not yet tested
extern void polint(double* xa,double* ya, int n, double x,
    double *y, double *dy);
extern double trapzd( PnlFunc *func, void * params, double
```

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#endif

References