Help

```
#if defined(PremiaCurrentVersion) && PremiaCurrentVersion < (2008+2) //The "#els
#else
/*************************************************************
*   CPS - A simple C PDE solver                              *
*                                                            *
*   Copyright (c) 2007,                                      *
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*                                                            *
*************************************************************/
#include "
href../../../common/math/highdim_solver/cps_pde_term_h_src.pdfcps_pde_term.h"
#include "
href../../../common/math/highdim_solver/cps_stencil_h_src.pdfcps_stencil.h"
#include "
href../../../common/math/highdim_solver/cps_stencil_operator_h_src.pdfcps_stenci
#include "
href../../../common/math/highdim_solver/cps_utils_h_src.pdfcps_utils.h"
#include "
href../../../common/math/highdim_solver/cps_assertions_h_src.pdfcps_assertions.h

int pde_term_create(pde_term **term, int type, function *f, stencil_operator *s)
{

  REQUIRE("function_not_null", f != NULL);
  REQUIRE("stencil_operator_not_null", s != NULL);

  STANDARD_CREATE(term, pde_term);
  (*term)->type = type;
  (*term)->function_factor = f;
  (*term)->st_operator = s;

  return OK;
}

int pde_term_destroy(pde_term **term)
{
```

```
  /* destroy term and associated stencil objects */

  if ((*term)->generated_stencil)
    stencil_destroy(&((*term)->generated_stencil));
  if ((*term)->st_operator)
    stencil_operator_destroy(&((*term)->st_operator));
  STANDARD_DESTROY(term);

  return OK;
}

int pde_term_set_function_factor(pde_term *pterm, const function *factor)
{
  /* set function factor */
  REQUIRE("pde_term_not_null", (pterm != NULL));
  REQUIRE("factor_not_null", (factor != NULL));

  pterm->function_factor = factor;

  return OK;
}

int pde_term_set_stencil_operator(pde_term *pterm, stencil_operator *stnop)
{
  /* set stencil operator for term */
  REQUIRE("pde_term_not_null", (pterm != NULL));
  REQUIRE("stencil_operator_not_null", (stnop != NULL));

  pterm->st_operator = stnop;

  return OK;
}

int pde_term_create_stencil(pde_term *pterm, const grid *g)
{
  /* apply stencil operator to create stencil for given term */
  REQUIRE("pde_term_not_null", (pterm != NULL));

  stencil_operator_apply(pterm->st_operator, pterm, g);
  pterm->generated_stencil = pterm->st_operator->applied_stencil;
```

```
  ENSURE("stencil_term_created", (pterm->generated_stencil != NULL));
  return OK;
}
/* end -- pde_term.c */

#endif //PremiaCurrentVersion
```