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```
Help
#include "bharchiarella1d.h"
#include "chk.h"
#include "error_msg.h"
#include "model.h"
extern char* path_sep;
static int MOD(Init)(Model *model)
  TYPEMOD* pt=(TYPEMOD*)(model->TypeModel);
  if (model->init == 0 )
      model->init = 1;
      model->nvar=0;
      pt->T.Vname = "Current Date";
      pt->T.Vtype=DATE;
      pt->T.Val.V DATE=0.0;
      pt->T.Viter=ALLOW;
      model->nvar++;
      pt->alpha0.Vname = "Volatility Parameter Alpha0";
      pt->alpha0.Vtype=PDOUBLE;
      pt->alpha0.Val.V_PDOUBLE=0.001;
      pt->alpha0.Viter=ALLOW;
      model->nvar++;
      pt->alphar.Vname = "Volatility Parameter Alphar";
      pt->alphar.Vtype=PDOUBLE;
      pt->alphar.Val.V PDOUBLE=0.04;
      pt->alphar.Viter=ALLOW;
      model->nvar++;
      pt->alphaf.Vname = "Volatility Parameter Alphaf";
      pt->alphaf.Vtype=PDOUBLE;
      pt->alphaf.Val.V_PDOUBLE=0.0;
      pt->alphaf.Viter=ALLOW;
      model->nvar++;
```

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pt->gamm.Vname = "Volatility Parameter Gamma";

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pt->gamm.Vtype=PDOUBLE;
    pt->gamm.Val.V_PDOUBLE=0.5;
    pt->gamm.Viter=ALLOW;
    model->nvar++;
    pt->lambda.Vname = "Volatility Parameter Lambda";
    pt->lambda.Vtype=PDOUBLE;
    pt->lambda.Val.V_PDOUBLE=0.2;
    pt->lambda.Viter=ALLOW;
    model->nvar++;
    pt->tau.Vname = "Volatility Parameter Tau";
    pt->tau.Vtype=PDOUBLE;
    pt->tau.Val.V_PDOUBLE=1.;
    pt->tau.Viter=ALLOW;
    model->nvar++;
    pt->beta0.Vname = "Forward Rate Parameter Beta0";
    pt->beta0.Vtype=PDOUBLE;
    pt->beta0.Val.V_PDOUBLE=0.04;
    pt->beta0.Viter=ALLOW;
    model->nvar++;
    pt->beta1.Vname = "Forward RateParameter Beta1";
    pt->beta1.Vtype=PDOUBLE;
    pt->beta1.Val.V_PDOUBLE=0.04;
    pt->beta1.Viter=ALLOW;
    model->nvar++;
    pt->eta.Vname = "Forward Rate Parameter Eta";
    pt->eta.Vtype=PDOUBLE;
    pt->eta.Val.V_PDOUBLE=0.05;
    pt->eta.Viter=ALLOW;
    model->nvar++;
  }
return OK;
```

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TYPEMOD BharChiarella1d;
MAKEMOD(BharChiarella1d);
```

References