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```
Help
#include "doublim.h"
static NumFunc 1 put=
  {
    Put,
    {{"Strike",PDOUBLE,{100},ALLOW,SETABLE},{" ",PREMIA_NUL
    LTYPE, {0}, FORBID, SETABLE}},
    CHK_call
  };
static NumFunc 1 const Re=
  {
    Const,
    {{"Const Rebate",DOUBLE,{100},ALLOW,SETABLE}, {" ",PREM
    IA NULLTYPE, {0}, FORBID, SETABLE}},
    CHK ok
  };
static NumFunc 1 const Low=
  {
    Const,
    {{"Lower Limit", PDOUBLE, {100}, ALLOW, SETABLE}, {" ", PREM
    IA NULLTYPE, {0}, FORBID, SETABLE}},
    CHK call
  };
static NumFunc 1 const Up=
  {
    Const,
    {{"Upper Limit", PDOUBLE, {100}, ALLOW, SETABLE}, {" ", PREM
    IA NULLTYPE, {0}, FORBID, SETABLE}},
    CHK call
  };
static TYPEOPT DoublePutOutEuro=
  {
    /*PayOff*/
                        {"PayOff", NUMFUNC_1, {0}, FORBID, SETA
    BLE },
                         {"Const Rebate", NUMFUNC_1, {0}, FORB
    /*Rebate*/
    ID, SETABLE },
```

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```
/*LowerLimit*/ {"Lower Limit", NUMFUNC 1, {0}, FORBID
    ,SETABLE},
    /*UpperLimit*/
                       {"Upper Limit", NUMFUNC_1, {0}, FORBID
    ,SETABLE},
    /*Maturity*/
                        {"Maturity", DATE, {0}, ALLOW, SETABLE}
    /*OutOrIn*/
                        {"Out", BOOL, {OUT}, FORBID, UNSETABLE}
    /*Parisian*/
                   {"Parisian",BOOL,{1},FORBID,UNSETABLE},
    /*RebNo*/
                    {"Rebate", BOOL, {REBATE}, FORBID, UNSETA
    BLE },
                   {"Euro",BOOL,{EURO},FORBID,UNSETABLE}
    /*EuOrAm*/
  };
static int OPT(Init)(Option *opt, Model *mod)
 TYPEOPT* pt=( TYPEOPT*)(opt->TypeOpt);
  if (opt->init == 0)
    {
      opt->init = 1;
      opt->nvar = 9;
      opt->nvar setable = 5;
      pt->PayOff.Val.V NUMFUNC 1=&put;
      pt->Rebate.Val.V NUMFUNC 1=&const Re;
      pt->LowerLimit.Val.V_NUMFUNC_1=&const_Low;
      pt->UpperLimit.Val.V_NUMFUNC_1=&const_Up;
      (pt->EuOrAm).Val.V BOOL=EURO;
      (pt->OutOrIn).Val.V BOOL=OUT;
      (pt->RebOrNo).Val.V_BOOL=NOREBATE;
      (pt->Maturity).Val.V_DATE=1.0;
      (pt->PayOff.Val.V NUMFUNC 1)->Par[0].Val.V PDOUBLE=10
    0.0;
      (pt->Rebate.Val.V_NUMFUNC_1)->Par[0].Val.V_PDOUBLE=0.
    0:
      (pt->LowerLimit.Val.V_NUMFUNC_1)->Par[0].Val.V_PDOUB
    LE=90.0;
```

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```
(pt->UpperLimit.Val.V_NUMFUNC_1)->Par[0].Val.V_PDOUB
    LE=110.0;

    if((pt->Rebate.Val.V_NUMFUNC_1)->Par[0].Val.V_PDOUBLE>0.0
    )
        (pt->RebOrNo).Val.V_BOOL=REBATE;
    return OK;
}

MAKEOPT(DoublePutOutEuro);
```

## References