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```
Help
#include "lim.h"
static NumFunc 1 call=
  {
    Call,
    {{"Strike", PDOUBLE, {100}, ALLOW, SETABLE}, {" ", PREMIA_NUL
    LTYPE, {0}, FORBID, SETABLE}},
    CHK_call
  };
static NumFunc 1 rebate=
  {
    Const,
    {{"Rebate", PDOUBLE, {100}, ALLOW, SETABLE}, {" ", PREMIA_NUL
    LTYPE, {0}, FORBID, SETABLE}},
    CHK digit
  };
static NumFunc 1 limit=
  {
    ConstLim,
      {"StartingDate",DATE,{0},IRRELEVANT,UNSETABLE},
      {"FinalDate",DATE,{0},IRRELEVANT,UNSETABLE},
      {"Frequency", PDOUBLE, {0}, IRRELEVANT, UNSETABLE},
      {"Limit", PDOUBLE, {90}, ALLOW, SETABLE},
      {" ",PREMIA NULLTYPE, {0}, FORBID, SETABLE}
    },
    CHK_digit
  };
static TYPEOPT CallDownOutEuro=
  {
    /*Maturity*/
                     {"Maturity", DATE, {0}, ALLOW, SETABLE},
    /*Limit*/
                     {"Limit", NUMFUNC 1, {0}, FORBID, SETABLE},
    /*PayOff*/
                     {"Payoff", NUMFUNC_1, {0}, FORBID, SETABLE}
                     {"Rebate", NUMFUNC 1, {0}, FORBID, SETABLE}
    /*Rebate*/
```

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```
/*OutOrIn*/
                    {"Out", BOOL, {OUT}, FORBID, UNSETABLE},
    /*DownOrUp*/
                    {"Down", BOOL, {DOWN}, FORBID, UNSETABLE},
    /*Parisian*/
                    {"Parisian", BOOL, {1}, FORBID, UNSETABLE},
    /*RebNo*/
                    {"Rebate", BOOL, {REBATE}, FORBID, UNSETA
    BLE },
    /*EuOrAm*/
                    {"Euro", BOOL, {EURO}, FORBID, UNSETABLE},
                    {"Total", BOOL, {TOTAL}, FORBID, UNSETABLE}
    /*PartOrTot*/
    /*ContOrDisc*/ {"Cont", BOOL, {CONT}, FORBID, UNSETABLE},
    /*ConstLim*/
                   {"ConstLim", BOOL, {CONSTLIM}, ALLOW, UNSE
    TABLE },
  };
static int OPT(Init)(Option *opt, Model *mod)
  TYPEOPT* pt=( TYPEOPT*)(opt->TypeOpt);
  if (opt->init == 0)
    {
      opt->init = 1;
      opt->nvar = 12;
      opt->nvar setable = 4;
      pt->PayOff.Val.V_NUMFUNC_1=&call;
      pt->Rebate.Val.V NUMFUNC 1=&rebate;
      pt->Limit.Val.V_NUMFUNC_1=&limit;
      (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=10
    .0;
      (pt->OutOrIn).Val.V BOOL=OUT;
      (pt->DownOrUp).Val.V_BOOL=DOWN;
      (pt->Parisian).Val.V BOOL=WRONG;
      (pt->RebOrNo).Val.V BOOL=REBATE;
      (pt->EuOrAm).Val.V_BOOL=EURO;
      (pt->PartOrTot).Val.V_BOOL=TOTAL;
      (pt->ContOrDisc).Val.V BOOL=CONT;
      (pt->ConstLim).Val.V_BOOL=CONSTLIM;
```

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```
(pt->Limit.Val.V_NUMFUNC_1)->Par[3].Val.V_PDOUBLE=90.
0;

    (pt->Maturity).Val.V_DATE=1.0;

    /* test for setability */
    if ((pt->RebOrNo).Val.V_BOOL==REBATE)
pt->Rebate.Vsetable=SETABLE;
    else
pt->Rebate.Vsetable=UNSETABLE;
}

return OK;
}
MAKEOPT(CallDownOutEuro);
```

References