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```
Help
#include "pad.h"
static NumFunc 2 put=
    Put StrikeSpot2, /*(Average-Spot)+*/
    {{" ",PREMIA_NULLTYPE,{0},FORBID,SETABLE}}},
    CHK call
  };
static NumFunc 2 asian=
  {
    Asian,
      {"StartingDate",DATE,{0},ALLOW,SETABLE},
      {"FinalDate",DATE,{0},IRRELEVANT,UNSETABLE},
      {"Frequency", PDOUBLE, {0}, IRRELEVANT, UNSETABLE},
      {"InitialValue", PDOUBLE, {100}, IRRELEVANT, UNSETABLE},
      {"Average", PDOUBLE, {100}, ALLOW, SETABLE},
      {" ",PREMIA NULLTYPE, {0}, FORBID, SETABLE}
    },
    /*The average At at time t is given by: A0+S0+Sh+S2h+...
    +Snh/n with:*/
    /*h=Frequency, nh=t-StartingDate */
    /*frequency doesn't matter for continuous average*/
    CHK call
  };
static TYPEOPT AsianPutFloatingAmer=
  {
                         {"Maturity", DATE, {0}, ALLOW, SETABLE}
    /*Maturity*/
    /*PayOff*/
                     {"Payoff", NUMFUNC 2, {0}, FORBID, SETABLE}
    /*PathDep*/
                     {"PathDep", NUMFUNC 2, {0}, FORBID, SETABLE
    },
    /*MinOrElse*/
                     {"Average", PADE, {AVERAGE}, ALLOW, UNSETA
    BLE },
                     {"Amer", BOOL, {AMER}, FORBID, UNSETABLE},
    /*EuOrAm*/
    /*PartOrTot*/
                     {"Total", BOOL, {TOTAL}, FORBID, UNSETABLE
```

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```
},
    /*ContOrDisc*/ {"Continuous", BOOL, {CONT}, FORBID, UNSE
    TABLE},
  };
static int OPT(Init)(Option *opt,Model *mod)
  TYPEOPT* pt=( TYPEOPT*)(opt->TypeOpt);
  if (opt->init == 0)
    {
      opt->init = 1;
      opt->nvar = 7;
      opt->nvar setable=3;
      pt->PayOff.Val.V_NUMFUNC_2=&put;
      pt->PathDep.Val.V_NUMFUNC_2=&asian;
      (pt->MinOrElse).Val.V_PADE=AVERAGE;
      (pt->EuOrAm).Val.V BOOL=AMER;
      (pt->PartOrTot).Val.V_BOOL=TOTAL;
      (pt->ContOrDisc).Val.V_BOOL=CONT;
      (pt->PathDep.Val.V_NUMFUNC_2)->Par[0].Val.V_DATE=0.0;
      (pt->PathDep.Val.V NUMFUNC 2)->Par[1].Val.V DATE=0.0;
      (pt->PathDep.Val.V NUMFUNC 2)->Par[2].Val.V PDOUBLE=0
    .0;
      (pt->PathDep.Val.V NUMFUNC 2)->Par[3].Val.V PDOUBLE=0
      (pt->PathDep.Val.V_NUMFUNC_2)->Par[4].Val.V_PDOUBLE=0
    .0;
      (pt->Maturity).Val.V_DATE=1.0;
    }
  return OK;
MAKEOPT(AsianPutFloatingAmer);
```

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References