

[Help](#)

```
#include "lmm1d_std.h"

int MOD_OPT(ChkMix)(Option *Opt, Model *Mod)
{
    TYPEOPT *ptOpt = (TYPEOPT *) (Opt->TypeOpt);
    TYPEMOD *ptMod = (TYPEMOD *) (Mod->TypeModel);
    int status = OK;

    if ((strcmp(Opt->Name, "ZeroCouponCallBondEuro") == 0) || (strcmp(Opt->Name, "
    {
        if ((ptOpt->OMaturity.Val.V_DATE) <= (ptMod->T.Val.V_DATE))
        {
            Fprintf(TOSCREENANDFILE, "Current date greater than maturity!\ n");
            status += 1;
        }
        if ((ptOpt->BMaturity.Val.V_DATE) <= (ptOpt->OMaturity.Val.V_DATE))
        {
            Fprintf(TOSCREENANDFILE, "Option maturity greater than Bond maturity!\ n
            status += 1;
        }
    }
}

if ((strcmp(Opt->Name, "ZCBond") == 0))
{
    if ((ptOpt->BMaturity.Val.V_DATE) <= (ptMod->T.Val.V_DATE))
    {
        Fprintf(TOSCREENANDFILE, "Current date greater than maturity!\ n");
        status += 1;
    }
}

if ((strcmp(Opt->Name, "PayerSwaption") == 0) || (strcmp(Opt->Name, "ReceiverS
    if ((ptOpt->BMaturity.Val.V_DATE) <= (ptOpt->OMaturity.Val.V_DATE))
    {
        Fprintf(TOSCREENANDFILE, "Option maturity greater than Bond maturity!\ n
        status += 1;
    }
}

if ((strcmp(Opt->Name, "Floor") == 0) || (strcmp(Opt->Name, "Cap") == 0))
{
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    if ((ptOpt->FirstResetDate.Val.V_DATE) <= (ptMod->T.Val.V_DATE))
    {
        Fprintf(TOSCREENANDFILE, "Current date greater than first coupon date!
        status += 1;
    }
    if ((ptOpt->FirstResetDate.Val.V_DATE) >= (ptOpt->BMaturity.Val.V_DATE))
    {
        Fprintf(TOSCREENANDFILE, "First reset date greater than contract matur
        status += 1;
    }
}

return status;
}

extern PricingMethod MET(MC_GZ);
extern PricingMethod MET(AP_Swaption_LMM);
extern PricingMethod MET(MC_PED);
extern PricingMethod MET(MC_Andersen_BermudanSwaption);
extern PricingMethod MET(MC_LongstaffSchwartz_BermudanSwaption);
extern PricingMethod MET(MC_AndersenBroadie_BermudanSwaption);
extern PricingMethod MET(MC_Schoenmakers_BermudanSwaption);

PricingMethod *MOD_OPT(methods) [] =
{

    &MET(MC_GZ),
    &MET(AP_Swaption_LMM),
    &MET(MC_PED),
    &MET(MC_Andersen_BermudanSwaption),
    &MET(MC_LongstaffSchwartz_BermudanSwaption),
    &MET(MC_AndersenBroadie_BermudanSwaption),
    &MET(MC_Schoenmakers_BermudanSwaption),

    NULL
};

DynamicTest *MOD_OPT(tests) [] =
{
    NULL

```

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};
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```
Pricing MOD_OPT(pricing) =  
{  
    ID_MOD_OPT,  
    MOD_OPT(methods),  
    MOD_OPT(tests),  
    MOD_OPT(ChkMix)  
};
```