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```
#include "uvm1d.h"
#include "chk.h"
#include "error_msg.h"
#include "model.h"

static int MOD(Init)(Model *model)
{
    TYPEMOD *pt = (TYPEMOD *) (model->TypeModel);

    if (model->init == 0)
    {
        model->init = 1;
        model->nvar = 0;

        pt->S0.Vname = "Spot";
        pt->S0.Vtype = PDOUBLE;
        pt->S0.Val.V_PDOUBLE = 100.;
        pt->S0.Viter = ALLOW;
        model->nvar++;

        pt->Divid.Vname = "Annual Dividend Rate";
        pt->Divid.Vtype = DOUBLE;
        pt->Divid.Val.V_DOUBLE = 0.;
        pt->Divid.Viter = ALLOW;
        model->nvar++;

        pt->R.Vname = "Annual Interest Rate";
        pt->R.Vtype = DOUBLE;
        pt->R.Val.V_DOUBLE = 10.;
        pt->R.Viter = ALLOW;
        model->nvar++;

        pt->sigmamin.Vname = "Sigma Min";
        pt->sigmamin.Vtype = DOUBLE;
        pt->sigmamin.Val.V_DOUBLE = 0.2;
        pt->sigmamin.Viter = ALLOW;
        model->nvar++;
    }
}
```

```
    pt->sigmamax.Vname = "Sigma Max";
    pt->sigmamax.Vtype = DOUBLE;
    pt->sigmamax.Val.V_DOUBLE = 0.3;
    pt->sigmamax.Viter = ALLOW;
    model->nvar++;

}

return OK;
}

TYPEMOD uvm1d;
MAKEMOD(uvm1d);
```