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```
#ifndef _NonPar1D_H
#define _NonPar1D_H

#include "optype.h"
#include "var.h"
#include "error_msg.h"

#define TYPEMOD NONPAR1D

/*1D Non Parametric World*/
typedef struct TYPEMOD
{
    VAR S0;
    VAR S0_volindex;
    VAR R;
    VAR implied_volatility;
    VAR option_prices;
} TYPEMOD;

#endif
```