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```
Help
#ifndef _ENUMS_H
#define _ENUMS_H
#include "optype.h"
#define NULLINT -1 /*!< default value of empty choices
#define MAX_PAR_ENUM 1 /*!< maximum number of parameters fo
    r Enumerations */
/* the array of PremiaEnumMember must end with {NULL, NUL
    LINT, 0, 0} */
typedef struct PremiaEnumMember t PremiaEnumMember;
struct PremiaEnumMember_t
  const char *label; /*!< string describing the choice */</pre>
              key; /*!< value associated to this choice */
  int
  int
              nvar; /*!< length of array Par, must be small
    er than MAX PAR ENUM */
              Par[MAX PAR ENUM]; /*!< extra parameters ass</pre>
    ociated to this choice */
};
typedef struct PremiaEnum_t PremiaEnum;
struct PremiaEnum t
{
                              /*!< size in bytes of an
 unsigned
                    size;
    enum member
 PremiaEnumMember *members;
                              /*!< a pointer to the first
    member of the enum */
  const char
               *label;
                              /*!< printable label for th
    e enumeration
};
#define DEFINE_ENUM(Name, Members) PremiaEnum Name = {
    { sizeof(Members[0]), &Members[0], #Name };
extern PremiaEnum PremiaEnumBool;
```

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```
extern PremiaEnum PremiaEnumCirOrder;
extern PremiaEnum PremiaEnumAfd;
extern PremiaEnum PremiaEnumAveraging;
extern PremiaEnum PremiaEnumBoundaryCond;
extern PremiaEnum PremiaEnumDiscretizationScheme;
extern PremiaEnum PremiaEnumPrecond;
extern PremiaEnum PremiaEnumSchemeTreeMSS;
extern PremiaEnum PremiaEnumExpPart;
extern PremiaEnum PremiaEnumDeltaMC;
extern PremiaEnum PremiaEnumIntegralScheme;
extern PremiaEnum PremiaEnumFlat;
extern PremiaEnum PremiaEnumFlat2;
extern PremiaEnum PremiaEnumBasis;
extern PremiaEnum PremiaEnumRNGs;
extern PremiaEnum PremiaEnumMCRNGs;
/* defined in var.c, but convenient to pout it here */
extern VAR * lookup_premia_enum_par(const VAR * x, int key)
#endif /* _ENUMS_H */
```

References