```
/****
 *
 * Class ChangeInputErrors defines an exception object containing input error
 * conditions for the Rolodex::Change function.  ChangeInputErrors contains a
 * list of error messages that may be output by the Roloex::Change operation.
 *
 */

#ifndef changeinputerrorsIncluded
#define changeinputerrorsIncluded

#include "std-macros.h"
#include "str.h"
#include "strlist.h"


class ChangeInputErrors {
  public:
    ChangeInputErrors();
    /*
     * Construct this by initializing the error message list to an empty list,
     * initializing the anyerrors flag to false, and initializing local copies
     * of the error message text for each of the possible errors from
     * Rolodex::Change.
     */

    void SetAlreadyThereError();
    void SetNotThereError();
    void SetIdenticalToExtantError();
    void SetNameError();
    void SetIdError();
    void SetAgeError();
    void SetSexError();
    void SetAddressError();
    /*
      Set the appropriate error by adding its message to the current list.
     */

    void Clear();
    /*
     * Clear out the error message list.
     */

    StrList* GetErrorList();
    /*
     * Return the current list of errors, if any.
     */

    bool AnyErrors();
    /*
     * Return true if one or more errors are set in the current list.
     */

    String* Enum();
    /*
     * Enumerate the messages in the current list.  Specs are the same as
     * List::Enum.
     */

  protected:
    StrList* sl;                 // List  of current error messages.
    bool anyerrors;              // True if one or more message are set

    String* alerrstr;            // Error message for card already there
    String* nalerrstr;           // Error message for card not there
    String* identerrstr;         // Error message for input identical with
                                 // extant card
    String* nerrstr;             // Error message for name field
    String* iderrstr;            // Error message for id field
    String* aerrstr;             // Error message for age field
    String* serrstr;             // Error message for sex field
    String* aderrstr;            // Error message for address field
};

#endif
```