

```
#ifndef STRING_H_
#define STRING_H_

#include <stdio.h>
#include <stdlib.h>

typedef short int ERRORCODE;
#define NOERROR 0
#define STRINGFULL 1
#define STRINGEMPTY 2
#define STRINGINVALID 3
#define MAX_STR_LEN 256;

typedef short int BOOLEAN;
#define TRUE 1
#define FALSE 0

typedef struct String
{
    int length;
    char data[MAX_STR_LEN];
} String;

// 1
ERRORCODE strCreate(String *str);
ERRORCODE strConcat(String *left, String *right);

//2
ERRORCODE strLength(String str, int *len);
ERRORCODE strEqual(String left, String right, BOOLEAN *result);

//3
ERRORCODE strAppend(String *str, char ch);
ERRORCODE strToUpper(String *str);

//4
ERRORCODE strClear(String *str);
ERRORCODE strCopy(String from, String *to);

//5
ERRORCODE strReverse(String *str);
ERRORCODE strToLower(String *str);
#endif
```