

```
#include "stdlib.h"
#include "string.h"
#include "assert.h"
```

סעיף א:

```
char* stringDuplicator(char* s, int times){
    assert(!s);
    assert(times > 0);
    int LEN = strlen(s);
    char* out = malloc(LEN*times);
    assert(out);
    for (int i=0; i<=times; i++){
        out = out + LEN;
        strcpy(out,s);
    }
    return out;
}
```

שגיאות תכנות:

1-#include <file.h>

2-assert(S);

3-char* out;

out = (char*) malloc (sizeof(char) * LEN + 1)

4-i < times

5-switch in between the lines the for loop –

strcpy then out = out + LEN;

6-we should point back the pointer out to the first index.

Code Conventions Errors:

1-The integer variable LEN should be in camelCase.

2- Using malloc requires using sizeof even though sizeof char is 1.

The Fixed Code:

```
#include <stdlib.h>
#include <string.h>
#include <assert.h>

char* stringDuplicator(char* s, int times) {
    assert(s);
    assert(times > 0);
    int len = strlen(s);
    char* out = (char*)malloc(sizeof(char) * len * times + 1);
    for (int i = 0; i < times; i++) {
        strcpy(out, s);
        out = out + len;
    }
    out -= len * times;
    return out;
    out = out + len;
}
out -= len * times;
return out;
}
```
