מת"מ

HW 1DRY

<u>2.1 סעיף</u>

```
#include "stdlib.h"
#include "string.h"
#include "assert.h" 1) The library name have to be between <>
char* stringDuplicator(char* s, int times){
        assert(!s); 1) We want s=! ten we have to write assert(s)
        assert(times > 0);
        int LEN = strlen(s); 2) A variable name have to be written in small case (len)
        char* out = malloc(LEN*times); 2) We have to add a place for the null character for the end
                                                of the string
        assert(out);
        3) We have to create a pointer to the beginning of the string
        for (int i=0; i<=times; i++){ 4) the condition should be i<times instead of i<=times
                        Otherwise, it will run one extra iteration and cause a buffer overflow.
                out = out + LEN;
                strcpy(out,s); 5) We first have to copy and then do out+=len
}
return out; 6) We have to return the beginning of the string but out is pointing on the end
}
```

```
#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 = malloc((len*times)+1);
  assert(out);
  char* start = out;
  for (int i=0; i<times; i++){}
    strcpy(out,s);
    out += len;
  }
  return start;
}
```