מת"מ – תרגיל 1 – חלק יבש

מגישים:

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Question 1:

Code Errors:

- 1. int LEN = strlen(*s); strlen requires type Char* argument.
- (s) is type char* but the actual contents of s variable were sent.
- 2. char *out = malloc(LEN * times); malloc returns type (*void) pointer,
 need to put (char*) before.
- 3. in addition to the above, malloc requires the amount of bytes to use, therefore the correct way is (sizeof(*char)*len*times).

So a "(char*)" was required before the malloc.

- 4. out = out + LEN; wrong advancing. The return value of out will be the last place in the char* array.
- 5. return out; returns the last pointer instead of the pointer to the first character.

Convention Errors:

- 1. Using shortcuts as names LEN instead of length.
- 2. Variables should be lower cases only. (LEN isn't).
- 3. Name of function should start with lower case, and every other word should start with upper case. (stringduplicator).
- 4. Function name should be phrased as verb. (correct way is possibly duplicateStrings).

Question 2:

```
Node createNode() {
void freeNodes(Node node) {
ErrorCode mergeSortedLists(Node list1, Node list2, Node *mergedOut){
```

```
}
else if(list1 != NULL && list2 == NULL){
    if(insertToNode(*mergedOut,list1) != SUCCESS){
        freeNodes(*mergedOut);
        return MEMORY_ERROR;
    }
    list1 = list1->next;
    continue;
}
break;
}
Node to_free = (*mergedOut);
(*mergedOut) = (*mergedOut)->next;
free(to_free);
return SUCCESS;
}
```