

과제 11 - 01

```
#include <stdio.h>
#include <string.h>

int main(void) {
    char *string = "Hello world!";
    int length = 0;

    length = strlen(string);
    for (int i=0; i<length; i++) {
        if (('a' <= string[i]) && (string[i] <= 'z')) printf("%c", string[i]-
'a'+'A');
        else if (('A' <= string[i]) && (string[i] <= 'Z')) printf("%c", string[i]-
'A'+'a');
        else printf("%c", string[i]);
    }

    return 0;
}
→ Tasks ./task11-1
hELLO WORLD!%
```

과제 11 - 02

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

int main(void) {
    int num = 0;

    scanf("%d", &num);
    getchar();

    char **string = (char **)malloc(num*(sizeof(char *)));

    for (int i=0; i<num; i++) {
        string[i] = (char *)malloc(100*sizeof(char));
        fgets(string[i], 100, stdin);
    }
    for (int j=0; j<num; j++) {
        fputs(string[j], stdout);
        free(string[j]);
    }
    free(string);

    return 0;
}
```

→ **Tasks** ./task11-2

3

Hello world!

C Programming is pretty fun.

Sorry, just kidding.

Hello world!

C Programming is pretty fun.

Sorry, just kidding.

과제 11 - 03

```
#include <stdio.h>
#include <string.h>

int main(void) {
    char string[100] = {0, };
    int length = 0;

    fgets(string, 100, stdin);
    length = strlen(string);

    for (int i=1; i<length; i++) {
        printf("%c", string[length-i-1]);
    }

    return 0;
}

→ Tasks ./task11-3
Hello World!
!dlroW olleH%
```

과제 11 - 04

```
#include <stdio.h>
#include <string.h>

int main(void) {
    char string[100] = {0, };
    char concat[50] = {0, };

    while (1) {
        scanf("%s", concat);
        if (!strcmp(concat, "end")) break;
        strcat(string, concat);
        strcat(string, " ");
        fputs(string, stdout);
        printf("\n");
    }

    return 0;
}
```

→ Tasks ./task11-4

```
I
I
am
I am
your
I am your
father
I am your father
end
```

→ Tasks ☐

과제 11 – 05

```
#include <stdio.h>
#include <string.h>

int main(void) {
    char string[200] = {0, };
    int word = 0;
    int is = 0;
    char delimiter[2] = " ";
    char *token;

    fgets(string, 200, stdin);
    token = strtok(string, delimiter);

    while (token != NULL) {
        word++;
        if (!strcmp(token, "is") || !strcmp(token, "Is") || !strcmp(token, "IS"))
            is++;
        token = strtok(NULL, delimiter);
    }

    printf("Word count: %d, is count: %d", word, is);

    return 0;
}
```

→ Tasks ./task11-5

Hi. This is C programming class.

Word count: 6, is count: 1

→ Tasks ./task11-5

What is the problem? Is that hypothesis true?

Word count: 8, is count: 2