

# miniRE Dash

Summary: THIS document is the subject for the miniRE Dash @42seoul.eduthon

version: 1.0

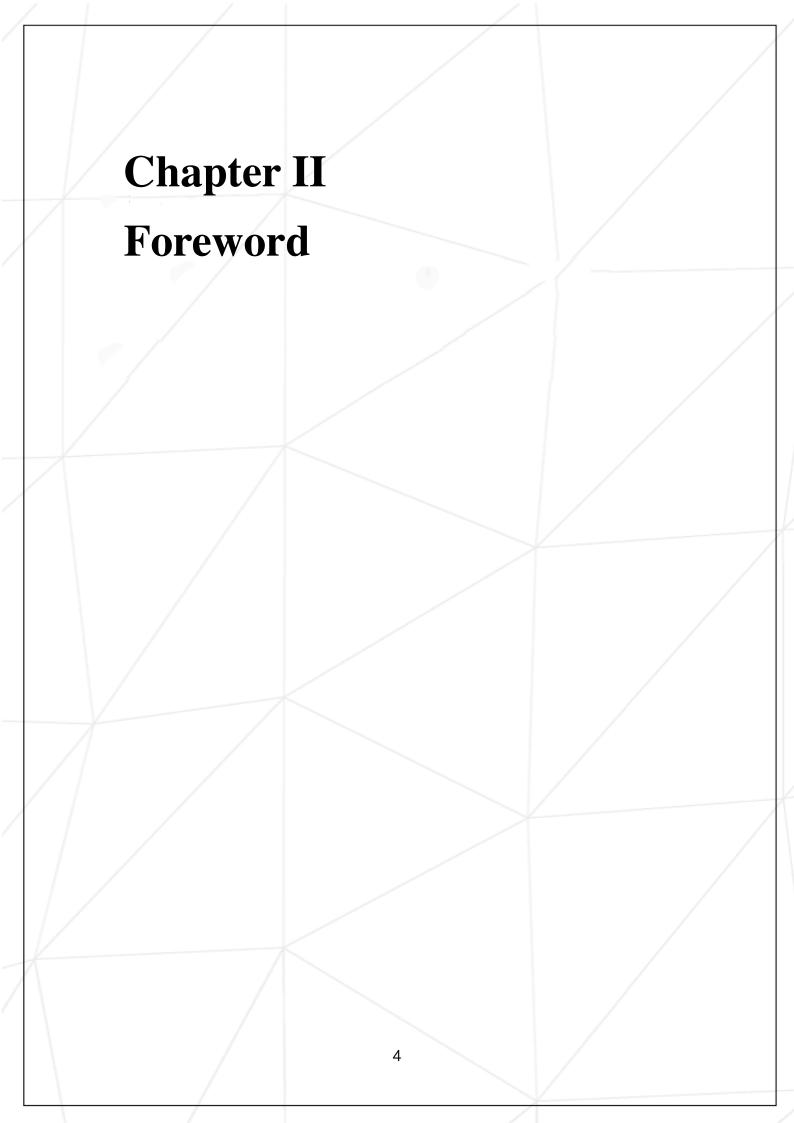
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# Chapter I

# **Instructions**

- In this subject, you will practice finding the **pattern** you want using *regular expressions*.
- The **pattern** should not be too long. Make your pattern efficiently. If you submit a pattern that is too long and complicate, the test will **KO** even if your answer is correct.
- The turn in file must be a single, compilable file.



## **Chapter III**

## Exercice 00: Eleven number checker

	Exercise 00	
/	eleven_number_checker	
Turn-in directory : ex00/		
File to turn in : eleven_number_checker.c		
Allowed functions : write		

- Create a program that check input string is *phone number*.
- *phone number* does not contain country code, hyphen or anything, except number. JUST plane 11 digit of number.
- Here's how it should be prototyped:

```
void eleven_number_checker(char *input);
```

#### Example:

```
$>./eleven_number_checker 01012345678

OK$

$>./eleven_number_checker 01012340678

KO$
```

## **Chapter IV**

## Exercice 01: Phone number checker

	Exercise 01	
/	phone_number_checker	
Turn-in directory : ex01/		
File to turn in : phone_number_checker.c		
Allowed functions: regcomp, regexec, regerror, regfree, write		

- Rewrite a program that check input number is *valid phone number*.
- Use <regex.h> header's function. We provide example code with basic usage of Regex functions.
- In Regex manner, *valid phone number* starts with three-digit of 01[0-9], followed by two four-digit numbers, hyphen in between.
- Here's how it should be prototyped:

void phone\_number\_checker(char \*input);

Examples in next page

#### Example:

```
$> ./example
Error
$> ./example arg1 arg2
Error
$> ./example "010-4242-a242"
KO
$> ./example "010-4242-4010-4242-4242"
$> ./example "010-4242-4242"
010-4242-4242
$> ./example "010-424-4242"
010-424-4242
$> ./example "010-4242-4242010-2424-2424"
010-4242-4242
010-2424-2424
010-4242-4242
010-4242-4242
```

# Bonus Chapter V

## Exercice 02: Simple E-mail validator

-	Exercise 02	
	email_validator	
Turn-in	directory: ex02/	
File to to	urn in: simple_email_validator.c	
Allowed	d functions: regcomp, regexec, regerror, regfre	ee, write

- Write a program to check an input is *valid E-mail*
- Valid E-mail is divided into two parts. Before the '@' character is the ID part. After the '@' is Domain part
- **ID** contains uppercase and lowercase letters and numbers, except 4, 2, s, e, o, u, or 1.
- **Domain** contains uppercase and lowercase letters and numbers, but only lowercase two or three letters after '.'(dot sign).
- Here's how it should be prototyped:



$$(A^c)^c = A$$

#### Example:

```
$> ./example
Error
$> ./example arg1 arg2
Error
$> ./example "benene31@42seoul.kr"
K0
$> ./example "banana42@42seoul.kr"
K0
$> ./example "@42seoul.kr"
K0
$> ./example "banana@42seoul.kr"
K0
$> ./example "banana@42seoul.kr"
K0
$> ./example "banana@42seoul.kr"
K0
```

## **Chapter VI**

## Exercice 03:

## Push swap instruction validator

4	Exercise 02	
	ps_instruction_validator	
Turn-in	directory: ex02/	
File to t	urn in: pushswap_instruction_validator.c	/
Allowed	I functions : regcomp, regexec, regerror, regfree, write	/

- Push\_swap has 11 operations, "pa, pb, sa, sb, ss, ra, rb, rr, rra, rrb, rrr".
- Write a program to check instructions are valid. We will test your code with random operations, some of them are invalid form.
- Instructions must be separated by a '\n' and nothing else.
- Here's how it should be prototyped:

void pushswap\_instruction\_validator(char \*input);





This is pipe and, yes. This is a hint.

# **Chapter VII**

## **Exercice 04: Snake to Camel**

	Exercise 03	
	sanke_toCamel	
Turn-in director	y: ex03/	
File to turn in:	sanke_ToCamel.c	
Allowed function	ns : regcomp, regexec, regerror, regfree	X

- Write a program to substitute a valid snake case input to camel case.
- Camel case always starts with uppercase letter.
- Here's how it should be prototyped:

void snake\_ToCamel(char \*input);



I think everyone knows what a  $\underline{\text{snake case}}$  and a  $\underline{\text{camel case}}$  are, but in case anyone doesn't, I prepared this.