

# Intermediate Programming

— Review of C programming (3) —

Waseda Univ.

## Today's exercise: Review of C programming (3)

- Review the contents of "Introduction to C programming: 12th–13th"
- 12th: Characters and Strings
- 13th: File input/output
- KIKAN2:  
<http://www-it.sci.waseda.ac.jp/ref.php/CPR1/class02/>
- KIKAN2: <http://www-it.sci.waseda.ac.jp/CPR2/class2514/index.html>

## Review1: Write a program

- Create a program which inputs a string and displays it.
- Output of this program is as follows:  
Input a word:University  
University
- Make sure that the program is compiled successfully.
- Copy your result on the terminal, paste it on CourseN@vi.

## Review2: Write a program

- Write a program which encodes a string by alternately taking chars off each end (starting with left side) and stopping when middle of string reached e.g.,
- "waseda" would become "waadse"
- Output of this program is as follows:  
Input a word:university  
uyntiivser
- Make sure that the program is compiled successfully.
- Copy your result on the terminal, paste it on CourseN@vi.

## Outline is as follows:

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

int main(void){

    char str[100];
    int i,j;
    printf("Input a word:");
    scanf("%s",str);
    while( ){
        .....
    }
    printf("\n");
    return 0;
}
```

## Review2: Write a program

- Download "kuku2.txt" from CourseN@vi.
- Read the "kuku2.txt" file and display the multiplication table **with true(-)/false(X)**

*Correct multiplication table:*

```
81 72 63 54 45 36 27 18 9
72 60 56 48 40 32 24 16 8
63 56 49 42 35 28 21 14 7
54 48 42 30 30 24 18 12 6
45 40 35 30 25 20 15 10 5
36 22 28 24 20 16 12 8 4
27 24 21 18 15 12 9 6 3
18 16 14 12 15 8 6 4 2
9 8 7 6 5 2 3 2 1
```

- Make sure that the program is compiled successfully.
- Copy your result on the terminal, paste it on CourseN@vi.

# How to submit today's exercise

- Title of the exercise should be "Review Part 3".
- Start your answer from the following form:  
"I would like to submit an answer of the Review Part 3.  
Student ID Your name . . . ."

Answers are the followings:

- ① Put your answer in review 1.
- ② Put your answer in review 2.
- ③ Put your answer in review 3.

Answer must be submitted by **23:59, Oct., 12th.**

Make sure that your answer is status of submitted after submitting.