DCP1203 HW3

10/03

Outline

- Announcements & Advices
- HW2 Discussion
- HW3 Explanation

Announcements & Advices

Announcements

- CHECK YOUR MAILBOX
- CORRECT FORMAT FOR HOMEWORKS
 - o In compressed(zip..) files -> 50%
 - Wrong file name -> 50%
 - in .cpp(C++ file) -> 50%

Announcements

- No lab hour next week, but homework remains
- Grades in detail can be viewed online
- Answers by TAs will be uploaded
- Remember your README file
 - o Either README.md or README.txt

Advices

Watch your coding style(variable name..)

• Write comments

```
int main(int argc, char** argv) {
    int month, date, year;
                               //Variable named according to their functions
    printf("Enter a date (mm/dd/yyyy): ");
    scanf("%d/%d/%d", &month, &date, &year);
    printf("You entered the date %d", year);
    if(month < 10){
        The following code is pushed to the right since it is
        inside the if statement(like smaller than this "if"
        printf("0");
    printf("%d", month);
```

HW2 Discussion

- scanf("format", &variable name);
 format: how you take in the input
 &: taking reference
- Example

```
int a, b, c;
printf("Your input: ");
scanf("%d %d/%d", &a, &b, &c);
printf("Previous input: %d %d/%d\n", a, b, c);
```

Answer

```
Your input: 1 2/3
Previous input: 1 2/3
```

- scanf("%d/%d/%d", &month, &day, &year);

 o Why not %s?
 - o String? fgets(), getchar()
- 0 disappearing?
 - o if-else
 - o printf("%02d", mm);

- printf("%.2f", num);
- The rounding problem?
 - o Times 100 and divide

- $| \bullet +, -, *, / |$
- Positive difference?
 - o if-else
 - o abs()
- printf("%f", (float) a / b);

- ASCII: alphabet encoding system
- printf("%d", (int) cha[i]);

- while loop (judge the input)
- Even? Odd?
 - o %: modulo, finding remainder

HW3 Explanation

 Write a program that takes in three integers and print output the numbers in descending order

```
Input 3 integers(seperate each with spaces): 1 5 9 9 5 1
請按任意鍵繼續 . . .
```

 Write a program that takes in a 2-digit number, and print it out with its digits reversed

> Input a 2-digit number: 21 The reversal output: 12 請按任意鍵繼續 . . .

- Here's a quiz with 14 questions, and the points are calculated in the following way:
 - 0 1~8 correct answers -> each worth 8
 points
 - >=9 correct answers -> 8 of them worth 8
 points each, and 6 points each for the
 rest

Please write a program that takes in the number of correct answers and outputs the result

Please enter the number of correct answer: 10 The score is: 76 請按任意鍵繼續 . . .

Please enter the number of correct answer: 3 The score is: 24 請按任意鍵繼續 . . .

Please write a program that takes sex and age as input, and determine whether he / she is marriageable. For boys, enter 1 for gender, and 2 for girls
 (Hint. Boys/Girls need to be greater than 18/16 yeas old to be marriageable)

Please enter your gender: 1 Please enter your age: 16 You are NOT marraigeable. 請按任意鍵繼續 . . .

 Please write a program displays the name of the month that user entered using switch case. If illegal input is detected, keep asking until correct input is typed. Enter 0 to quit the program

Please enter the month: 5 May Please enter the month: 16 Invalid input. Please try again... Please enter the month: 0 Goodbye 請按任意鍵繼續

 Write a program to show a multiplication table. Use loop instead of listing them all with printf