

Assignment 6 (Preprocessing and I/O)

Chung-Ang University

```
#include <stdio.h>
#define NAME "Son"
#define AGE 20
#define PRINT_ADDR puts("address: ...\n");
int main()
{
    printf("Name: %s\n", NAME);
    printf("Age: %d\n", AGE);
    PRINT_ADDR;
    return 0;
}
```



```
#include <stdio.h>
#define SQUARE(x) x*x

int main()
{
    int num = 20;
    printf("Square of num : %d\n", SQUARE(num));
    printf("Square of -5 : %d\n", SQUARE(-5));
    printf("Square of 2.5: %f\n", SQUARE(2.5));
    return 0;
}
```



```
#include <stdio.h>
#define DIFF_ABS(x, y) ((x)>(y) ? (x)-(y) : (y)-(x))
int main()
{
    printf("difference: %d\n", DIFF_ABS(5, 7));
    printf("difference: %f\n", DIFF_ABS(1.8, -1.4));
    return 0;
}
```

```
#include <stdio.h>
#define ADD 1
#define MIN 0
#define _CRT_SECURE_NO_WARNINGS
int main () {
   int num1, num2;
   printf("enter two integers: ");
   scanf("%d %d", &num1, &num2);
   #if ADD
       printf("%d + %d = %d\n", num1, num2, num1+num2);
   #endif
   #if MIN
       printf("%d - %d = %d\n", num1, num2, num1-num2);
   #endif
   return 0;
```



```
#include <stdio.h>
#define HIT NUM 7
#define _CRT_SECURE_NO_WARNINGS
int main()
   #if HIT_NUM == 5
       puts("HIT_NUM is 5);
   #elif HIT NUM == 6
       puts("HIT_NUM is 6);
   #elif HIT NUM == 7
       puts("HIT_NUM is 7);
   #else
       puts("HIT_NUM is not 5, 6, and 7);
   #endif
   return 0;
```



- Fill in the blank with following conditions
 - Define a macro function that returns a large value comparing two values
 - Define a macro function that returns a small value comparing two values

```
#include <stdio.h>

blank

#define _CRT_SECURE_NO_WARNINGS
int main () {

int num1, num2;
printf("enter two integers: ");
scanf("%d %d", &num1, &num2);
printf ("large : %d \n", MY_MAX(num1,num2));
printf("small : %d \n", MY_MIN(num1,numw));
return 0;
}
```



- Making a program with following conditions
 - Print date, time, file name.
 - You should use predefined macro
 - File name should be formatted as student number_student name (EX, 20210000_honggildong.c)



- Making a program with following conditions
 - Get two int inputs x, y (x and y are 1~100)
 - Print result of inputs with 5 operation (+, -, *, /, %) line by line
 - Output EX: if(x= 5, y =5)

```
5 + 5 = 10
5 - 5 = 0
5 * 5 = 25
5 / 5 = 1
5 % 5 = 0
```

- Making a program with following conditions
 - Get one int input x
 - Print sum of (1 to x)
 - Output EX: if x = 5

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Making a program with following conditions

- Get one int input int that is number of operation
- Get two int inputs x,y for number of operation time
- Print each case's result with following format.
- Case #number of case : x + y = x+y
- Output EX: if number of case = 2, x = 5, y = 7, x = 7, y = 5

Operation #1: 5 + 7 = 12Operation #2: 7 + 5 = 12

