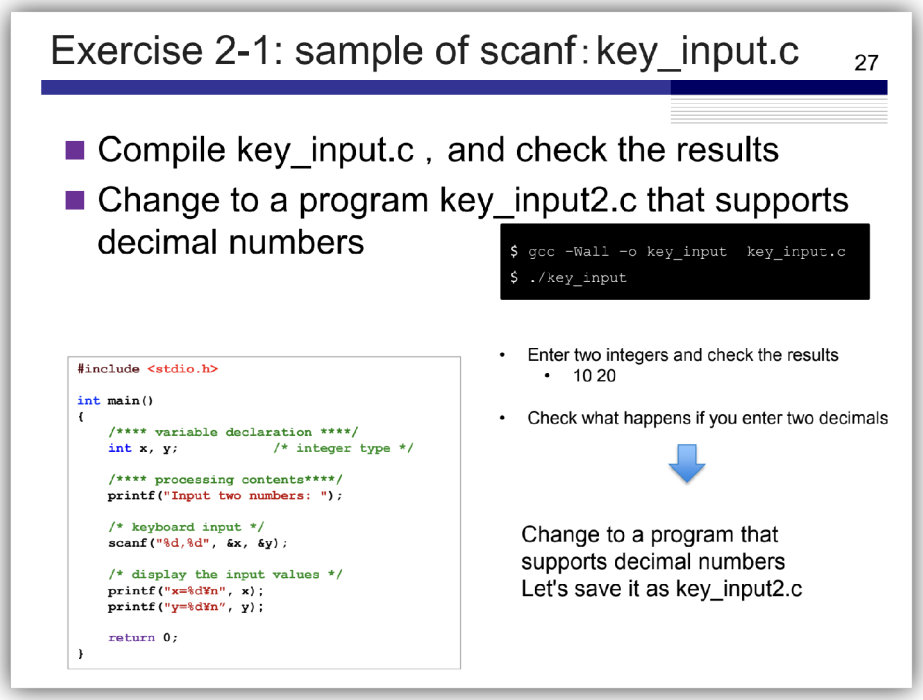
# Exercise 2.1: scanf

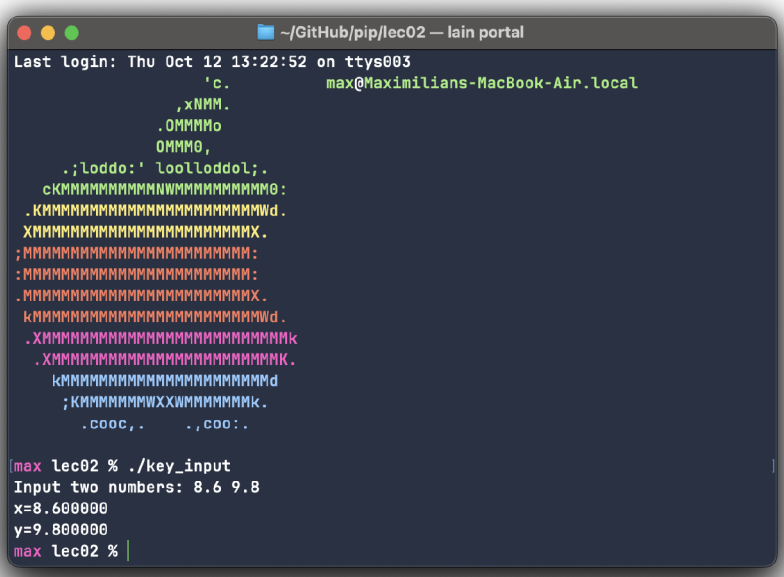



key_input.c receives 2 integers and prints them out. In order to support decimal numbers, we cannot use the type `int` because it will truncate the decimals off of the numbers we input. In order to retain the decimals, we need to change the type to `float` or `double`. We also need to change the format specifiers from `%d` to `%f` when printing the numbers so that it fits the type of our variable, which is `float`.

Putting all this together, we rewrite the program as such:

```c
#include <stdio.h>

int main(){

    /**** variable declaration ****/
    float x, y;           /* integer type */

    /**** processing contents ****/
    printf("Input two numbers: ");

    /* Get keyboard input */
    scanf("%f %f", &x, &y);

    /* display getting value */
    printf("x=%f\n", x);
    printf("y=%f\n", y);

    return 0;
}
```

Running the compiled program in the terminal produces this output:


~/GitHub/pip/lec02 — lain portal
Last login: Thu Oct 12 13:22:52 on ttys003
max@Maximilians-MacBook-Air.local
max lec02 % ./key_input
Input two numbers: 8.6 9.8
x=8.600000
y=9.800000
max lec02 %