Problem 1 (5 points) *Find all errors in this function definition (there are at least 5).*

```c
int someFn(float param);
{
  int salaries[10];
  float x = 7.0, y = 9.5;

  salaries[10] = 1000.50;
  (x + y) += param;

  printf("%d", salaries);

  return 0;
}
```

Problem 2 (5 points) *Given the following declarations*

```c
int MaxPos(float array[], int length);
float grades[50];
int num_students;
```
What is the type of each of the following expressions

- grades
- grades[MaxPos(grades, num_students)]
- MaxPos(grades, 5)
- grades[7] > 40.0
- grades[10] + 5

Problem 3 (10 points) Consider the following function

```c
void fn(char string[], int start)
{
    int i;
    char temp;

    i = start;
    while (string[i+1] != 0)
    {
        if (string[i] < string[i+1])
        {
            temp = string[i];
            string[i] = string[i+1];
            string[i+1] = temp;
        }
        i++;
    }
}
```

This function is called as follows
fn("helaow", 1);
Write out the state of the array string (using a row of boxes with values inside them) and the value of i at the end of the if statement for each iteration of the loop. What does this function do?
Hint: What does the if statement do?
Problem 4 (10 points)  Write a program to print the letter ’V’. You should ask the user for the height of the V and display the V on the screen as follows

Please enter the height of the V: 4
The big V is
\ / \\
\ / \\
\ / \\
\ / \\

Hints: take some other value of the height as well, draw the corresponding V, and determine how to solve the problem. How will functions help you with this problem? How many values are of interest in each line? Draw a table to show these interesting values for each line, and you should be well on your way.

Problem 5 (10 points) Assume that Jan 1 of any year is a Sunday. Write a function that takes a day, a month and a year as parameters and calculates which day of the week it falls on. Remember that February has 29 days if the year is divisible by 4. Also, print the day of the week in human readable form i.e. Sunday, Monday etc.

Hints: What should the function return? While writing this function, do you have to worry about user input? What values do you want to use to represent the days of the week? It will help to compute the total number of days between Jan 1 and the given date, both included.