# Laboratorio 3: Algunas soluciones

## Ejercicio 1 - Parte A

Función table from file

```
void table from file(WeatherTable a, const char *filepath) {
  FILE *file = NULL;
  file = fopen(filepath, "r");
  if (file == NULL) {
      fprintf(stderr, "File does not exist.\n");
  unsigned int k_year = Ou;
  while (!feof(file)) {
      int res = fscanf(file, " %u %u %u ", &k_year, &k_month, &k_day);
      if (res != 3) {
          fprintf(stderr, "Invalid table.\n");
          exit(EXIT FAILURE);
      a[k year-FST YEAR][k month-1][k day-1] = weather;
  fclose(file);
```

Función weather\_from\_file

```
Weather weather_from_file(FILE* file)
{
    Weather weather;
```

### Ejercicio 1 - Parte B

Función min\_temp\_min

```
int min_temp_min(WeatherTable table) {
  int result;

result = table[0][0][0]._min_temp;
for (unsigned int year = 0u; year < YEARS; ++year) {
    for (month_t month = january; month <= december; ++month) {
        for (unsigned int day = 0u; day < DAYS; ++day) {
            if (table[year][month][day]._min_temp < result) {
                result = table[year][month][day]._min_temp;
            }
        }
    }
}
return result;
}</pre>
```

### Función max\_temp\_max

```
void max_temp_max(WeatherTable table, int output[YEARS]) {
    for (unsigned int year = 0; year < YEARS; year++) {
        // mayor temperatura del año `year`
        int max_temp_year = table[year][0][0]._max_temp;
        for (month_t month = january; month <= december; ++month) {
            for (unsigned int day = 0u; day < DAYS; ++day) {
                if (table[year][month][day]._max_temp_year) {
                      max_temp_year = table[year][month][day]._max_temp;
                }
        }
        output[year] = max_temp_year;
    }
}</pre>
```

#### Función month\_max\_rainfall