

C++ Programming Methods

Assignment 1 compensation, Date Problems

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This assignment enables to compensate for insufficiencies in assignment 1.

Age and day of the week

Print a list of every day from 1900 January 1 through 2100 December 31 and for each day print the correct age in years, age in months for someone born on January 1 1900, and also day of the week (Monday: 1, Tuesday: 2, ... Sunday: 7). For this you can use the distributed solution or another correct solution but be sure to add references when using work by others.

In addition print for each day the result you computed in your solution to assignment 1 for age in years, age in months, and day of the week. Check if the result is correct and otherwise add a '*' character directly after your result. Your output should look for example like:

```
1900 1 1 0 0 1 0 0 1
1900 1 2 0 0 2 1* 0 2
1900 1 3 0 0 3 0 0 4*
.....
2100 12 30 200 2411 4 200 2411 4
2100 12 31 200 2411 5 200 2411 5
```

Count for each of the three different result types (age in years, age in months, and day of the week) the number of errors over all days. At the end print the total number of errors for each type.

Run you program (here "./main") and use a pipe '|' and shell command "grep" to filter all the lines that have a '*' so that you can more easily identify patterns in where errors pop up and hopefully understand the source of the errors better:

```
$ ./main | grep "*"

```