POTD2.1. Problem of the Day #2

Download and Extract

An initial setup of files is provided to you via a shell script: [Download potd-q2](#)

Using a terminal, extract the initial files by running the shell script you just downloaded (you will need to navigate to the directory where you saved the file):

```
sh potd-q2.sh
```

Your files for this problem will be in the `potd-q2` directory.

The Problem

You will be writing a program that outputs the amount of time that has passed since Epoch. (Googling Epoch may help)

Write a program that prints out the time that has passed since the Epoch in 1) hours, 2) days, and 3) years, (ignoring leap years, so each year is 365 days) each on a separate line. Integer division is acceptable.

To do this, you will write three functions: `int hours(time_t t)`, `int days(time_t t)`, and `int years(time_t t)`. These functions all take the time since the epoch as input.

The `time_t` type is used to hold the number of seconds since the epoch; its actual type (`int`, `long`, etc.) depends on your system and compiler. You can read more about it [here](#) on cppreference.com.

In the provided code, you will find a variable that contains the seconds since epoch called `sec_since_epoch`.

Testing Your Code

Run the following commands to compile and execute your code:

```
make
./main
```

Sample Output

```
Hours: 412655
Days: 17193
Years: 47
```

Upload Solution

Drop files here or click to upload.

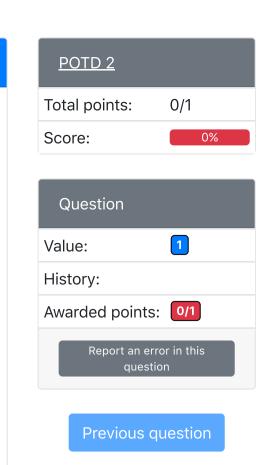Only the files listed below will be accepted—others will be ignored.

Files
○ epoch.cpp
not uploaded

Save & Grade   Save only