

# Cron Task

We have a set of tasks, each running at least daily, which are scheduled with a simplified cron. We want to find when each of them will next run.

The scheduler config looks like this:

```
30 15 /bin/run_me_daily
45 * /bin/run_me_hourly
* * /bin/run_me_every_minute
* 19 /bin/run_me_sixty_times
```

- The first field is the minutes past the hour, the second field is the hour of the day and the third is the command to run.
- For both cases \* means that it should run for all values of that field.
- In the above example run\_me\_daily has been set to run at 3:30pm every day and run\_me\_hourly at 45 minutes past the hour every hour.
- The fields are whitespace separated and each entry is on a separate line.

We want you to write a command line program that when fed this config to stdin and the current time in the format HH:MM as command line argument outputs the soonest time at which each of the commands will fire and whether it is today or tomorrow. When it should fire at the current time that is the time you should output, not the next one.

For example given the above examples as input and the command-line argument `16:10` the output should be:

```
15:30 tomorrow - /bin/run_me_daily
16:45 today - /bin/run_me_hourly
16:10 today - /bin/run_me_every_minute
19:00 today - /bin/run_me_sixty_times
```

We will want to run your tool, so please supply instructions for running it. Additionally, it must work on at least one of OSX and Linux (so we can run it on our dev boxes), ideally both.

Please submit all code as attachments, not in the body of the email, as formatting is often lost or mangled. If you want to attach multiple files please do so as an archive (e.g. zip, tar, git bundle, etc).