

Create a **console program** that **monitors HTTP traffic on your machine** :

Consume an actively written-to w3c-formatted HTTP access log ([https://en.wikipedia.org/wiki/Common\\_Log\\_Format](https://en.wikipedia.org/wiki/Common_Log_Format))

Every 10s, display in the console the sections of the web site with the most hits (a section is defined as being what's before the second '/' in a URL. i.e. the section for "http://my.site.com/pages/create" is "http://my.site.com/pages"), as well as interesting summary statistics on the traffic as a whole.

Make sure a user can keep the console app running and monitor traffic on their machine

Whenever total traffic for the past 2 minutes exceeds a certain number on average, add a message saying :

"High traffic generated an alert - hits = {value}, triggered at {time}"

Whenever the total traffic drops again below that value on average for the past 2 minutes, add another message detailing when the alert recovered

Make sure all messages showing when alerting thresholds are crossed remain visible on the page for historical reasons.

Write a test for the alerting logic

```
82.238.169.147 200 GET 266 /oeuvre/poetik/que-pourrais-je-vous-dire http://short-edition.com/oeuvre/poetik/que-
82.238.169.147 200 GET 359 /autocomplete?term=yannick http://short-edition.com/oeuvre/poetik/que-pourrais-je-v
82.238.169.147 200 GET 485 /autocomplete?term=yannick+pa http://short-edition.com/oeuvre/poetik/que-pourrais-je
82.238.169.147 200 GET 333 /autocomplete?term=yannick+pan http://short-edition.com/oeuvre/poetik/que-pourrais-j
82.238.169.147 200 GET 351 /autocomplete?term=yannick+pa http://short-edition.com/oeuvre/poetik/que-pourrais-je
82.238.169.147 200 GET 705 /auteur/yannick-pagnoux http://short-edition.com/oeuvre/poetik/que-pourrais-je-vous-
82.238.169.147 200 GET 345 /oeuvre/poetik/nenuphar http://short-edition.com/auteur/yannick-pagnoux
82.238.169.147 302 POST 416 /voter/30194 http://short-edition.com/oeuvre/poetik/nenuphar
82.238.169.147 200 GET 344 /oeuvre/poetik/nenuphar http://short-edition.com/oeuvre/poetik/nenuphar
183.60.213.52 200 GET 341 /categorie/tres-tres-court/surnaturel
78.214.104.127 200 GET 162 /mon-compte http://short-edition.com/oeuvre/poetik/qu-en-est-il-de-nos-soirs
78.214.104.127 200 GET 334 /mon-compte/mes-oeuvres http://short-edition.com/mon-compte
54.211.174.70 200 GET 0 /robots.txt
54.211.174.70 301 GET 0 /oeuvre/tres-tres-court/deux-fois-rouge/last
90.0.163.73 200 GET 538 /oeuvre/nouvelles/le-souffle-de-l-autan-noir
90.0.163.73 200 GET 1 /favicon.ico
197.252.0.50 302 POST 139 /voter/31042 http://short-edition.com/oeuvre/nouvelles/vosselaar
197.252.0.50 200 GET 149 /voter/31042/etape-1 http://short-edition.com/oeuvre/nouvelles/vosselaar
197.252.0.50 200 GET 1 /favicon.ico
197.252.0.50 302 GET 1482 /facebook_login_check?_target_path=/voter/31042/etape-2/confirmer http://short-editi
197.252.0.50 200 GET 431 /voter/31042/etape-2/confirmer http://short-edition.com/voter/31042/etape-1
220.181.108.175 200 GET 311 /
123.125.71.77 200 GET 293 /
183.60.213.52 200 GET 293 /auteur/lucas
[bot] 200 GET 248 /oeuvre/strips/froid-eternel
123.125.71.86 200 GET 318 /
220.181.108.165 200 GET 327 /
[bot] 200 GET 393 /auteur/pingouin
183.60.213.52 200 GET 625 /auteur/fredorthez
183.60.213.52 200 GET 246 /auteur/jakoko
```

HTTP Traffic monitoring example