

A common security method used for online banking is to ask the user for three random characters

from a passcode. For example, if the passcode was 531278, they may ask for the 2nd, 3rd, and 5th

characters; the expected reply would be: 317.

The attached text file, [keylog.txt](#), contains fifty successful login attempts.

Given that the three characters are always asked for in order, analyse the file so as to determine the

shortest possible secret passcode of unknown length.

FAQs:

- Can I google the answer? If you want, but the guilt will live with you forever.
- Can I use third party libraries? Yes
- Do I have to use java? No
- How do I win? Get the right answer in the fastest average time, with well written code.

Good luck!