

1. ThaiLanD
2. Time for creating a table = 4.881517171859741 secs  
Total lines = 2653144
3. 543,508 lines/sec (1 word/line)
4. From the algorithm above, we have
  - a. alphabet 26 letters
  - b. alphabet can be uppercase and lowercase
  - c. 10 digits of number (0-9)number of possible character =  $[(26 * 2) + 10] = 62$   
So, It'll takes  $62^{**} \text{ word length} / 543,508 \text{ secs}$  to break the password
5. 1 year is equal to  $365 * 24 * 60 * 60 = 31,536,000 \text{ secs}$   
word length =  $\log(543,508 * 31,536,000, 62)$   
 $= 7.383437797334531$   
The proper length of a password should be at least 8 characters.
6. Random string that is added to a password before it's hashed and stored with hash.