Akka - Password Cracking

Hint Cracking

- create different hint universes:
    - hint universe = password universe - 1 character
- create hashed permutations for each hint universe as a hashmap containing a hint key as key and the hashed permutation values as value
- check whether hashed hints are in permutation hashmap
- cracked hints give hint keys of which characters are not in the password

Password Cracking

- create hashed permutations for all possible password characters
- check whether hashed password is in permutation hashmap
- print out cracked password

Use Akka Future as way to retrieve the result of the concurrent operations of the permutation creation and cracking process.