ISM Challenge 2

You have breached the adversary database and got its password hashvalue. That is _____ (given like a String on Sakai)

You know that your adversary is using one of the most 1 million used passwords available here https://raw.githubusercontent.com/danielmiessler/SecLists/master/Passwords/Common-Credentials/10-million-password-list-top-1000000.txt

You also know that they are using a technique that will make your rainbow tables useless because they add "ism" as a prefix to all user passwords and after that they hash them 2 times using MD5 (1st run) and SHA1 (2nd run).

Write a simple Java application that will brute force the adversary password. The Java solution should contain a single .java file.

The Java solution must print the corresponding password.

Benchmark the solution by printing the amount of milliseconds require to do this. In order to measure the performance you can use

```
long tstart = System.currentTimeMillis();


//do the brute force


long tfinal = System.currentTimeMillis();
System.out.println("Duration is : " + (tfinal-tstart));
```

All the solutions will be cross-checked with MOSS from Stanford. Solutions with a similarity of more than 50% will be canceled.