



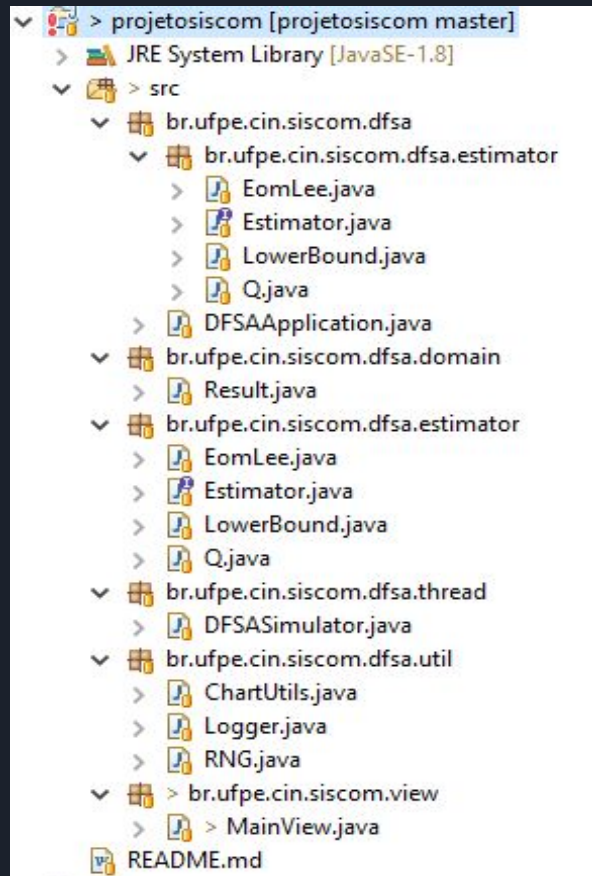
Estimadores DFSA

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Simulador

Implementação

- Linguagem
 - Java
- Bibliotecas
 - Xcharts

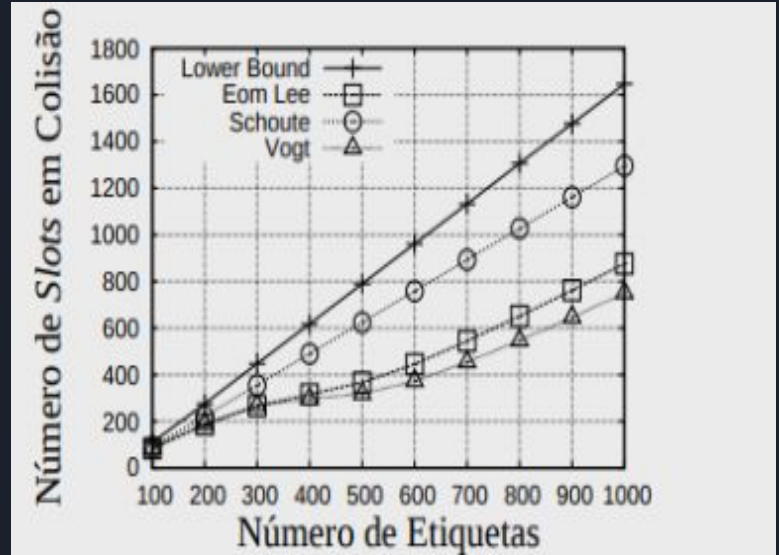
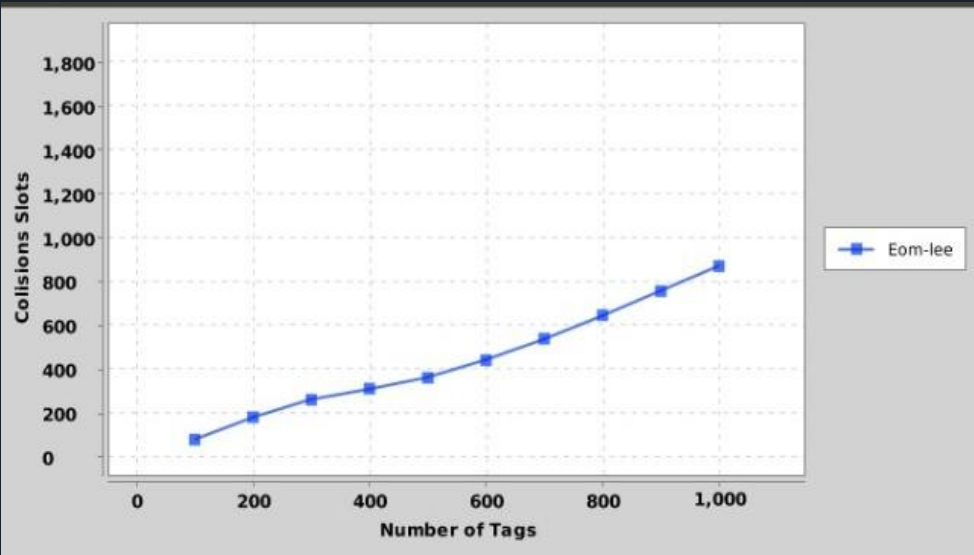


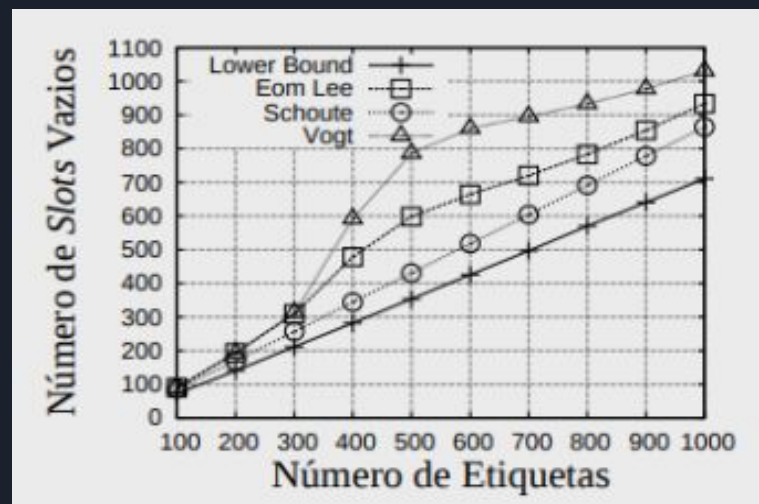
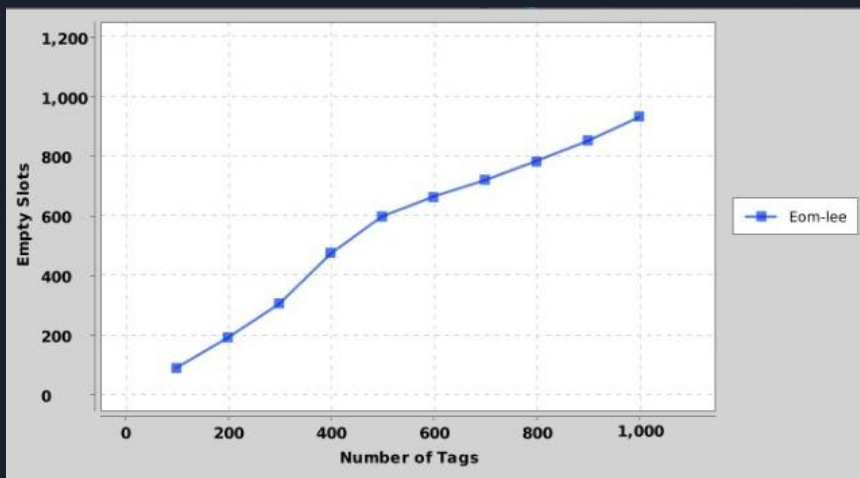


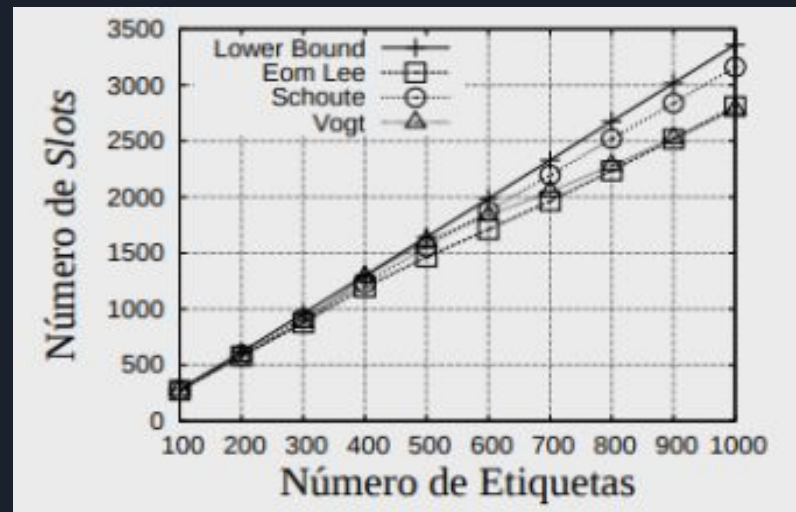
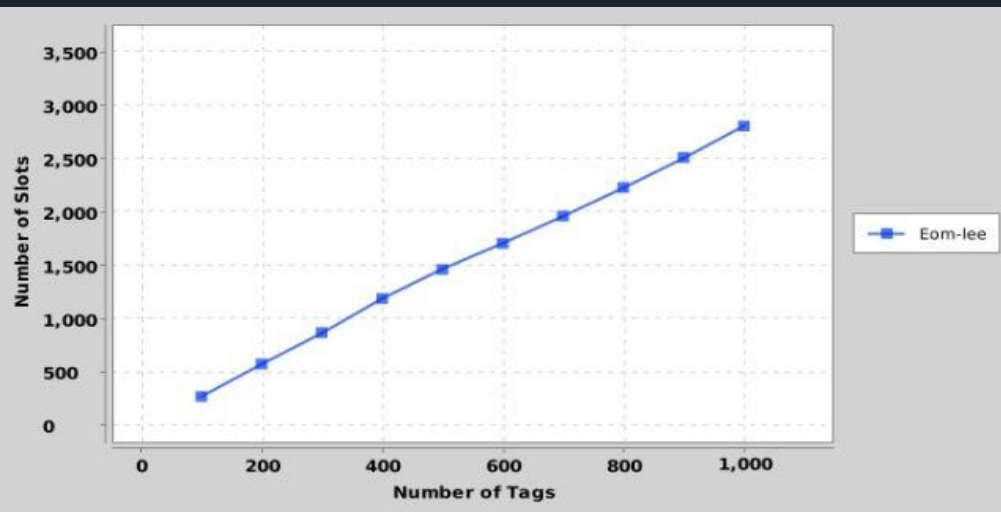
Eom-Lee & Lower Bound

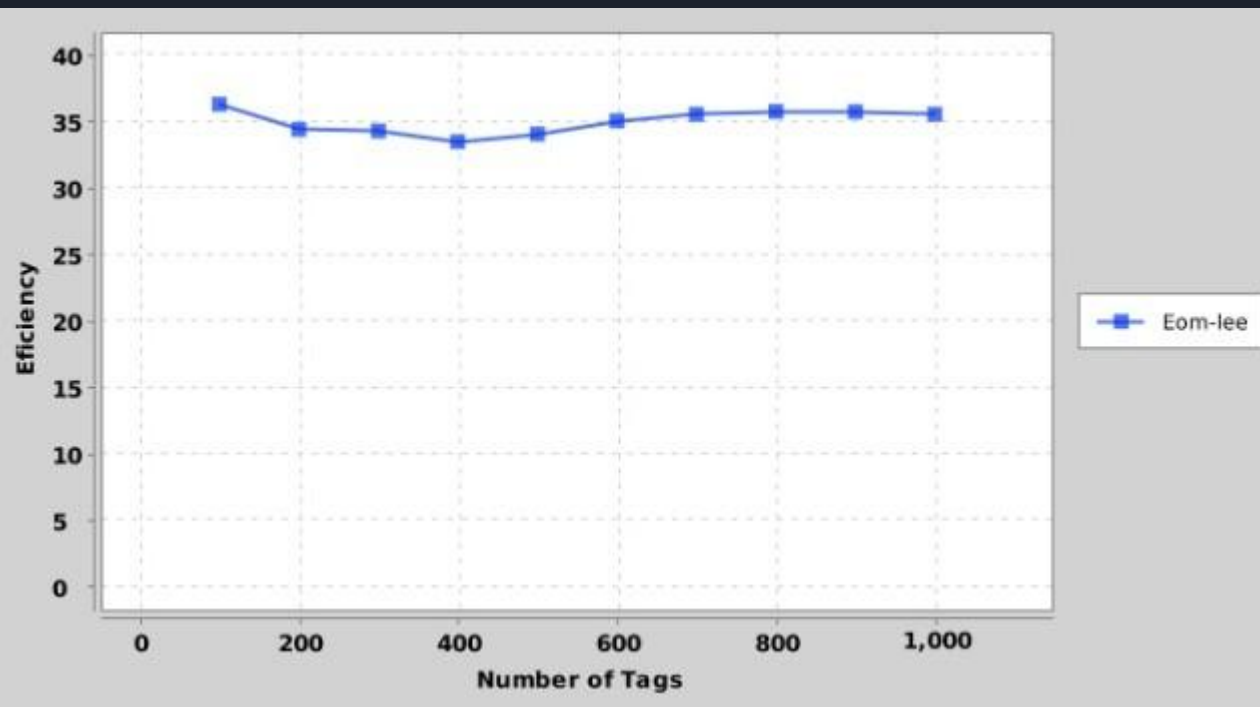
Eom-Lee

```
EomLee.java
1 package br.ufpe.cin.siscom.dfsa.estimator;
2
3 public class EomLee implements Estimator{
4
5     private double beta = Double.POSITIVE_INFINITY;
6     private double gama = 2;
7     private double last_gama = 2;
8
9     private double threshold = 0.001;
10
11     double beta_ = 0;
12     double ebeta = 0;
13
14     public int estimate(int success, int empty, int collision){
15
16         int lastFrameSize = success + empty + collision;
17
18         if(lastFrameSize == 0){
19
20             return 64;
21         }
22         else {
23             do {
24
25                 last_gama = gama;
26                 beta = (double) (lastFrameSize / ( (last_gama * collision) + success ));
27                 beta_ = (double) (1 / beta);
28                 ebeta = (1 / Math.pow(Math.E, beta_));
29                 gama = (double) ((1 - ebeta) / (beta * (1 - ((1 + beta_)*ebeta)) ));
30
31             } while( Math.abs(last_gama - gama) >= threshold );
32
33             return (int) (gama * collision);
34         }
35     }
36
37     @Override
38     public String getName() {
39         return "Eom-lee";
40     }
41 }
```





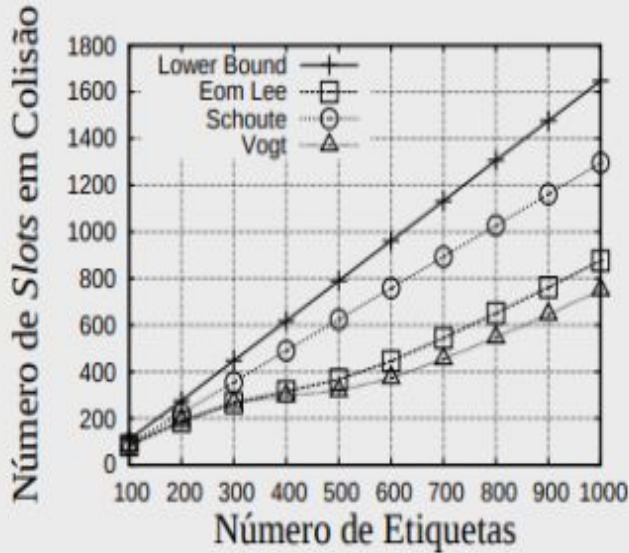
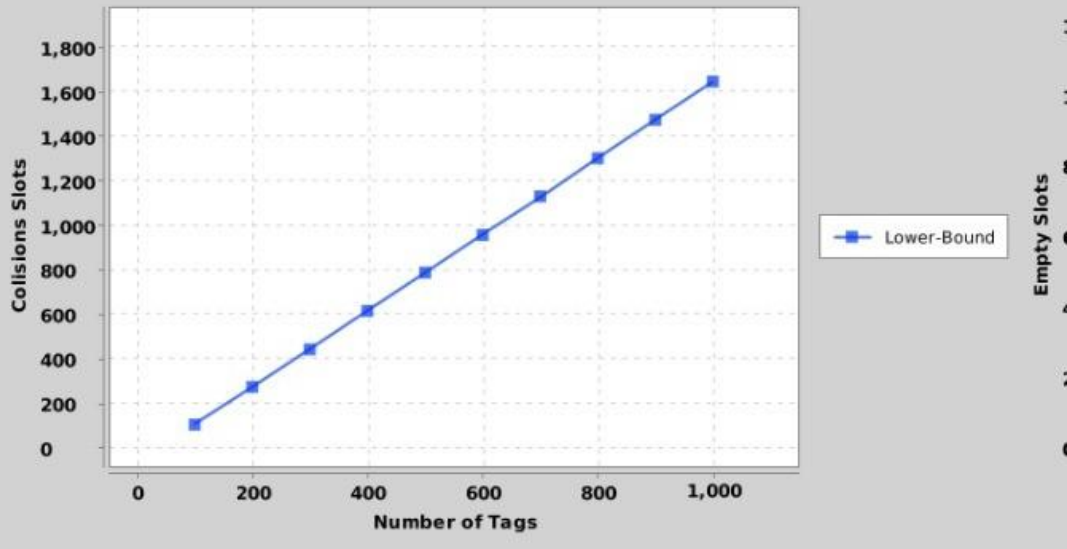


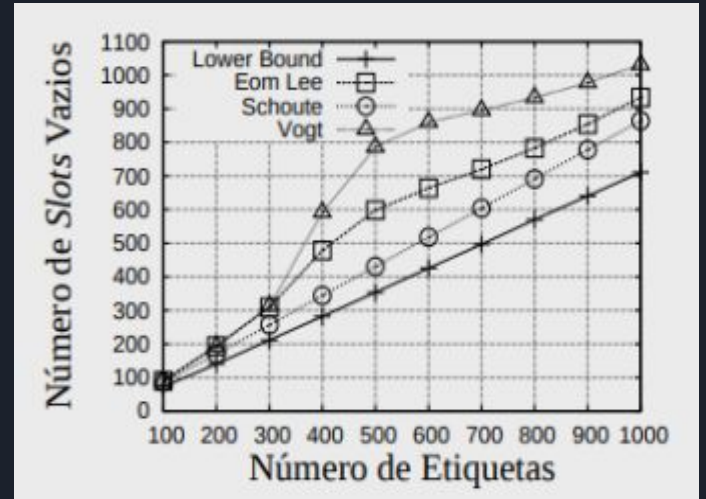
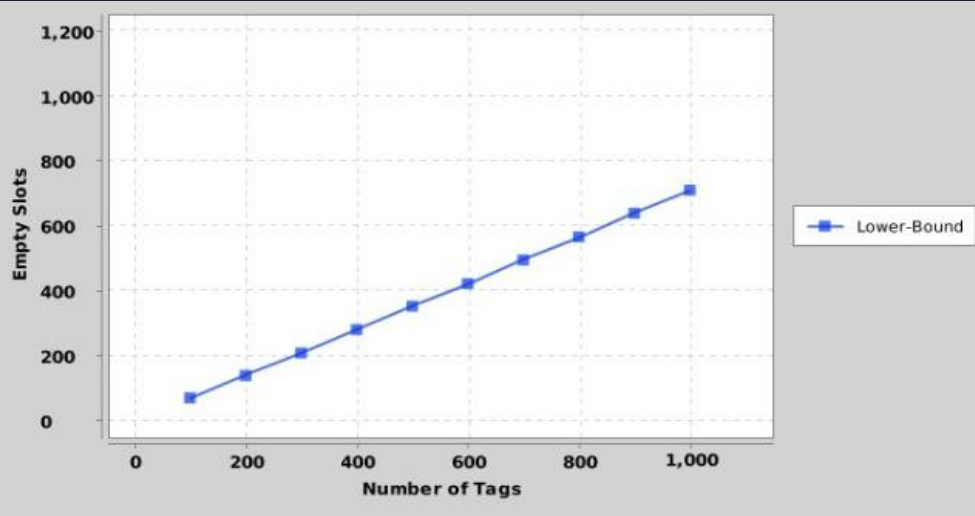


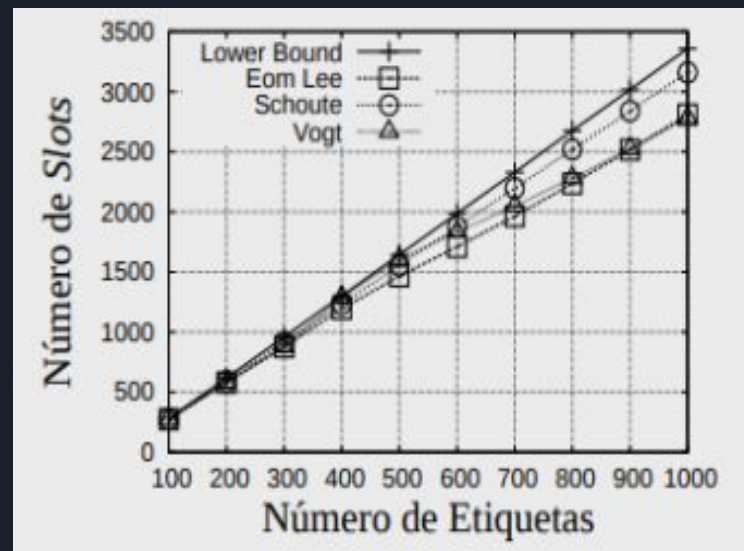
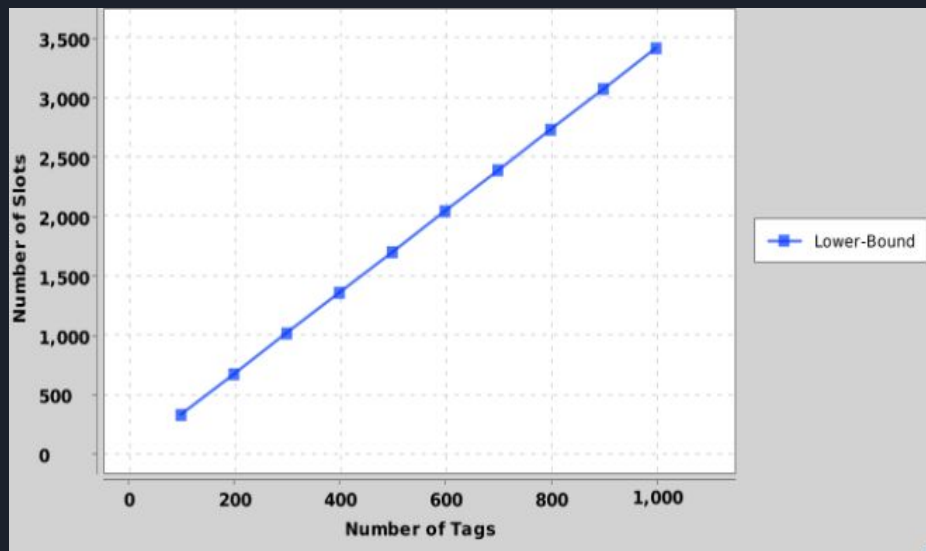
Lower Bound

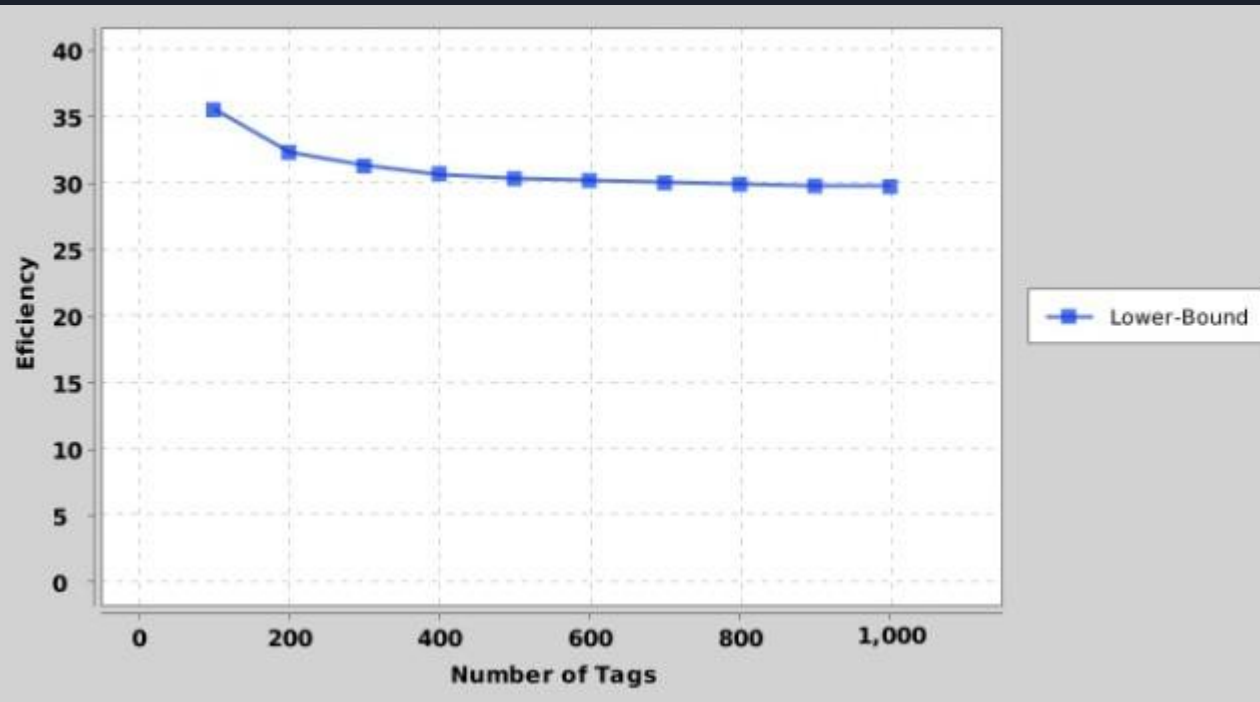
LowerBound.java

```
1 package br.ufpe.cin.siscom.dfesa.estimator;
2
3 public class LowerBound implements Estimator {
4
5     @Override
6     public int estimate(int success, int empty, int collision) {
7
8         return collision*2;
9     }
10
11     @Override
12     public String getName() {
13         return "Lower-Bound";
14     }
15
16 }
17
```











Obrigado