**FKS Statistics Results:**

*TEST I*

**Input:**p = **95009**; //prime number GREATER than any key value.  
n = 10000; //array size  
a = random(1, p-1); //a  
b = random(0, p-1); //b  
  
  
**Results for 100 runs:**  
Collisions:  
- Total: 84525.0  
- Min: 427.0  
- Max: 1090.0  
- Average: 845.25  
  
Collisions per Cell Average:  
- Total: 132.72730074278874  
- Min: 1.0  
- Max: 10.0  
- Average: 1.3272730074278873  
*=> meaning, we use less than 2 hashes to get no collisions, in average.*  
  
Table Size:  
- Total: 1892126.0  
- Min: 14354.0  
- Max: 60562.0  
- Average: 18921.26  
*=> which is less than 2\*n (=20000), in average.*  
  
run time (ms):  
- Total: 1734.0  
- Min: 10  
- Max: 84  
- Average: 17.34

*TEST II*

**Input:**p = **950023**; //prime number GREATER than any key value.  
n = 10000; //array size  
a = random(1, p-1); //a  
b = random(0, p-1); //b  
  
  
**Results for 100 runs:**

Collisions:

- Total: 92504.0

- Min: 412.0

- Max: 1092.0

- Average: 925.04

Collisions per Cell Average:

- Total: 135.2520655864183

- Min: 1.0

- Max: 8.0

- Average: 1.352520655864183

*=> meaning, we use less than 2 hashes to get no collisions, in average.*

Table Size:

- Total: 1998886.0

- Min: 18078.0

- Max: 89826.0

- Average: 19988.86

*=> which is less than 2\*n (=20000), in average.*

run time (ms):

- Total: 1761.0

- Min: 9

- Max: 70

- Average: 17.61