Bloom Filter

證明：h為loge(m/u)時，P(h)為最小值。

實驗設計：m=10000、u=1000的情況下 h≈7

| **hash function** | **false positive count** | **false positive rate** |
| --- | --- | --- |
| sha1 | 84 | 8.4% |
| sha1, md5 | 36 | 3.6% |
| sha1, md5, sha224 | 12 | 1.2% |
| sha1, md5, sha224, sha256 | 10 | 1.0% |
| sha1, md5, sha224, sha256, sha3\_224 | 8 | 0.8% |
| sha1, md5, sha224, sha256, sha3\_224, sha512 | 7 | 0.7% |

