

## *Probability And Computing Mitzenmacher Upfal Solutions*







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An empty Bloom filter is a bit array of  $m$  bits, all set to 0. There must also be  $k$  different hash functions defined, each of which maps or hashes some set element to one of the  $m$  array positions, generating a uniform random distribution. Typically,  $k$  is a constant, much smaller than  $m$ , which is proportional to the number of elements to be added; the precise choice of  $k$  and the constant of ...

### Bloom filter - Wikipedia

In probability theory, concentration inequalities provide bounds on how a random variable deviates from some value (typically, its expected value). The laws of large numbers of classical probability theory states that sums of independent random variables are, under very mild conditions, close to their expectation with a large probability. Such sums are the most basic examples of random ...

### Concentration inequality - Wikipedia

Randomized algorithm: Probabilistic algorithm ...

### Variable de Bernoulli - goo Wikipedia (Variable de Bernoulli)

Variable de Bernoulli. Une variable aléatoire suivant la loi de Bernoulli est appelée variable de Bernoulli. La loi de Bernoulli est la loi de la variable aléatoire qui code le résultat d'une épreuve qui n'admet que deux issues (épreuve de Bernoulli) : 1 pour « succès », 0 pour « échec », ou quel que soit le nom qu'on donne aux deux issues d'une telle expérience aléatoire.

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