

Re: Application of Birthday Paradox

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Paul wrote:

It doesn't matter which bin you choose. The probabilities are all the same.

i know, but i can have distribution such that certain bins can have more balls, thus higher probability.

Well, if $k = N$, then you're sure to pick a bin that has a ball in i

of course, but i dont have luxury of having this .. in fact, $N \ll M$ bins. That's why i need some other ball distribution method. e.g. finding balls in the first few consecutive bins.

If you choose any k bins, the probability that no balls end up in any of them is

$$1 - (1 - k/N)^M.$$

--- Christopher Heckman

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