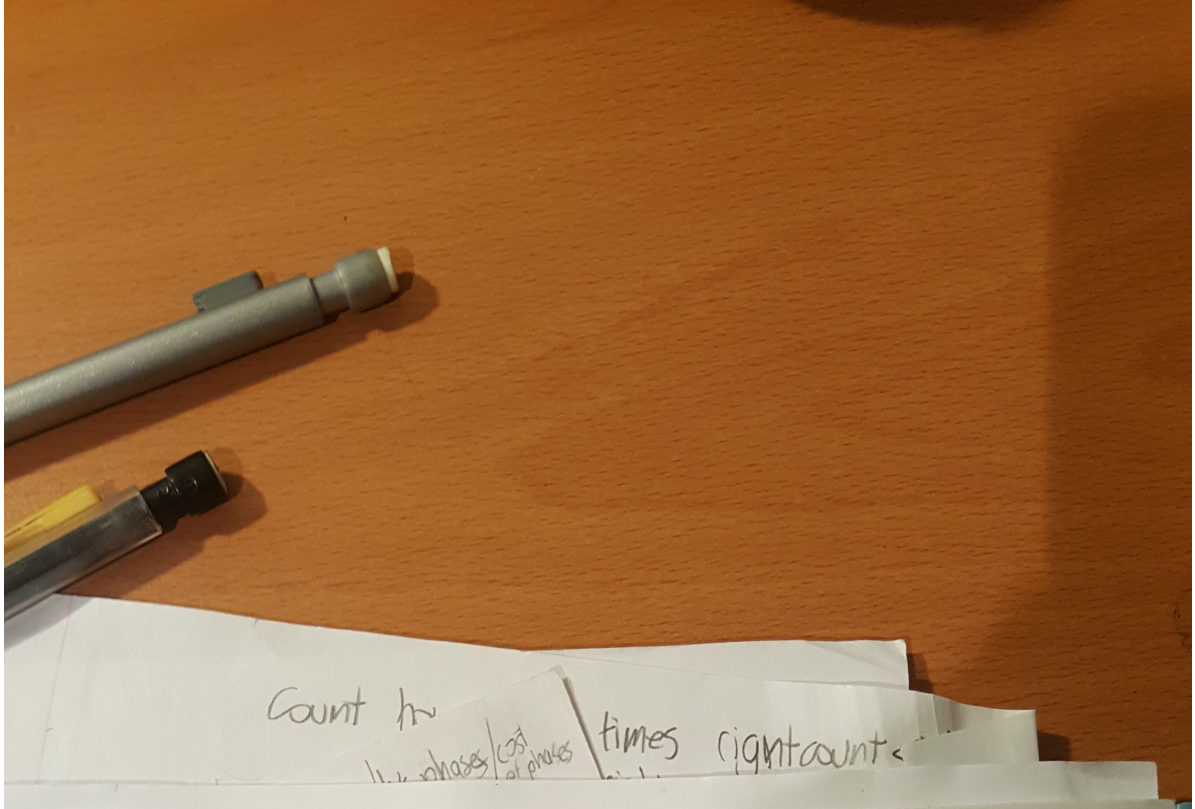

5. By geometric probability distribution, $\frac{1}{p}$ is the expected number of probe attempts until succeeding

$p = 1 - a$ where $a = \frac{n}{m}$ for n = number of elements and m = TableSize

Thus for hashing scheme with open addressing, the number of probes expected is

$$O\left(\frac{1}{1-(a)}\right)$$