a

Pos	Context & curr base	Count
0	AAAAAAAAAAA	135
1	AAAAAAAAAAC	389
⋮	⋮	⋮
$2^{24}-5-n$	CGATTTGCGCAA	252
$2^{24}-4-n$	CGATTTGCGCAC	275
$2^{24}-3-n$	CGATTTGCGCAG	226
$2^{24}-2-n$	CGATTTGCGCAT	269
⋮	⋮	⋮
$2^{24}-2$	TTTTTTTTTTG	34
$2^{24}-1$	TTTTTTTTTTT	31

b

c

Arithmetic Counting

Approximate Counting

$\dfrac{\text{Position}}{\text{Stored Count}}$

d

w

$h_1(val)$

$h_2(val)$

$h_3(val)$

$h_d(val)$

val

$+1$

$+1$

min

d