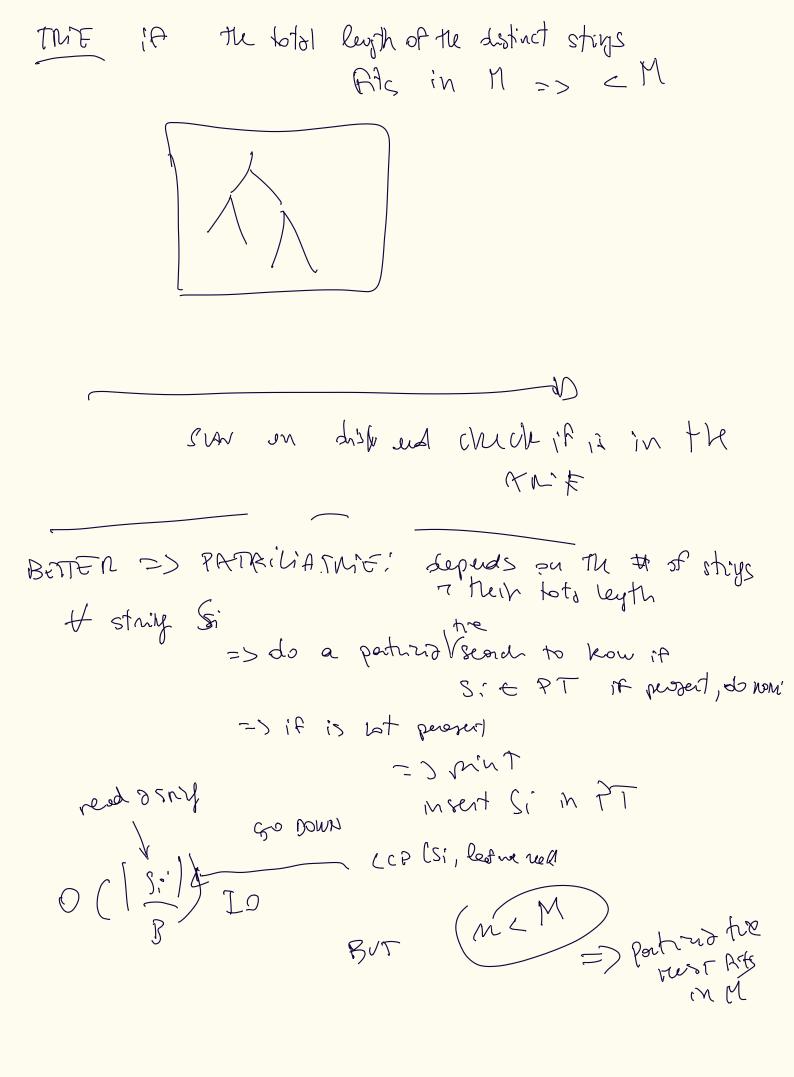
· Corvey a sequerce of Stings (may be duphrote) => fiter to keep just the distinct one (1 copy perstring) when reway size M; velotion between m, M, total length of the strings 1) Bloom Filter: in this case M: O(M) M= C·MLM 9 SIDE of Plano F R= m lm 2 = com lu 2 = c lu 2 = > - SUN THE STRINGS Si and Y OF Them set 1 take a sny Check if BIh, (si) + + 3=1,k ₩ J = 1; ... K nd ded, If all pos are I strings J : 11.00 => beloys to get sue don do outling else pint s; 49=4.1k nt la eggup BIh 3 (Si)=1 Cost to bleyt of the O(B) Tos => 7t's a soo and IN checks one done in M Line of m. K + N)



BEST SOW TOON => hosh custe poir

Y Si ... o h (Si) — r 2 h (Si), i>

and ox an extendly menory sorter

=> SONT

-> keep i & the first after eact

SPFZTM(BF 7 elle mn = 7 msert (123 h)

Key \	ha	hz_
-0		3
2	4	6
3	6	2
4	1	5

hr: 2 x mod 7 hr: 3 x mod 7 0 1 2 3 2 5 6 [0 | 1 | 2 | 3 | 1 | 1] 2 1

metto un 1 april voltà che ento in ue celle

Query (5)

ha(5) = 10 mod 7 = 3 b2 (5) 15 mod 7 = 1

> => Pesto è enone cut s is not e set of kaps

Il numero ottimele di funzioni di hosto per il Bloom filter of size for and the keeps 15 R = m ln 2 probabilital di avere une celle =0 $e^{-\frac{km}{m}} = e^{-\frac{m\ln 2 \cdot m}{m}} = e^{-\frac{km}{m}}$

 $=\frac{1}{\ln 2}=\frac{1}{2}$