

# 617 66145-0(m) obsolute, country is from the Seprincy)

Space for BiG BLOCKS =  $O(\frac{m}{2})$ . Roy m) bits # 2613 block contrel
(# 4 op to the separity, but I don't want consolor just 4 set deso the zero es write logam COF MZZW 1) If I won't to know # 1 in the middle of 2, need rank, previous f a scan for 1 => 2 can be big => courider small yocks 2 FOUR RUSSIAN POUCK ue le writing in RAM mobil with word size O(log m) bits - Severy operation on a world of , udien ue do a vont: by m is constant 19 queing this position: Lo scan takes O(2) time = Swant in constant >> PABULATE ALL POSSIBLE ANSWER => . I could black configuration x and for every position y e [1,2] = S store # 1 m x [1, y] TAPIE 00 1 POWS 2 2 COWMNS 2

· Rank, (i) =	Counter	STORED	at	2	(biz block)	industry	Ċ
	)/	11	\\	F	Canall 11)	1	1
D let x be the small slock including i							
D let x be the small slock including i let y = i mod z							
	una g	et T[	×19				

## SOW MON WITH EN'AS - PHANO

1970 I DS that was o(m) site in addition to B that supports select, a scleet in anstert time (O(1))

The 2 THEOREMS Localt Lupud on (m) (# of heys) but on the miverse cize

=> I get a solution (a DS) that occupies

size

size

space: 2n + m(ly m)

+ of leap