-> Let's say we have four types of bruits:
Apple, Orange, Banana, Litchi

Let's assign there bruits with O-based indexes.

		Page No.
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		deposition of
	Apple -> 0	100
	the state of the s	Challenge of Spiritual Control of
etikalisisisisisisisi	Banana → 2 Litchi → 3	
		Annual Control of Caller Control & Manager of Control of Control of Control
0	Now, distrabute there graits to	The start of
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ni adhasananin ku u yang mahin nanajam	1 -> 2,3	
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	3 -> 1,3 - 543481818	1 4 4 4
	4 - 0.3	
	A A A A A A A A A A A A A A A A A A A	LAN SUE
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	Now, let's say we have to intersection of 19+ and 200	portgan's strong:
	The state of the s	
	Now, if we go through the or and if the ortrays are gorte table us O(N) time complexity	amora approved
	and if the ortrays are gorde	M. M. Louis
	take us O(N) time complexity	ta) timbing
	1000	
-	But we can use Bit - masking	3 1/27 0
	parter approach.	
	01 0 7 5 60 11 1 0 00	
	91 -> 2,3 -> @ 1100	
45.4	$2 \rightarrow 0,1,2 \rightarrow 0,111$ $3 \rightarrow 1,3 \rightarrow 1010$	
	y → 0,3 -> 1001	
	Mist of the major production in	
	the bours monthed another attition in	100
	He have marked every array of lainary number and have se	t their
	Construction Bits	the state of the last
st if it	e.g. Jon 19th puryon, we have	tola
	e.g. juj	- U

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lunary number with 2" and 300 Bit as get Similarly for 200 person 0", 150 and 200 Bit as get. and so on ... Here . Set Bit represents the availability of the particular Bit (Indexed) print.

Now, If we have to find the intersection of 112 and 200 persons fruits, we will simply take AND (&) and our operation will

be done in O(1) a complexity.

e.g: 1 -> 2,3 -> 1100 => 12 2-0,1,2-0111=07

50, if we do, 12 & 7

=> 1100 \$ 01-11 : 01-00 → This trepresents they have I common print which is of 2 ND type, of fruit ing common life them as negultant has 2" lit as set.

- Bit Marking - Limitations:

- He con't take bigger values of n here so, it can only store data of $\eta = 32$. similarly unsigned Long Long can state data of n = 64.