Kabir Bose	(100862410)		
Dataset: P	roduct_ID	= [N. 1.	30. 2. 51. 6.	29, 7, 67, 15, 118,
			, 2 3]	
	111			
Sorbing Algo	LAMM?			
Merge Sort				
1) [11,1,30	12,51,6,	29,7,67,1	5,118,4,89,2	13]
	6			
2) LII, 1, 30	, 2, 51, 6,	29] L7,6	7,15,118,4,89	, 23]
3) [11,1,130	, 2] [51,6,	12.97	[7,67,115, 116]	Γ4.80.1237
/ /	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	7	2 113 116 3	
4) [11,11] [30/2][51	6][29]	[7,67][15,118]] [489][23]
₹ \	6 2 6		2 1 2 1	
				5][118][4][89][23]
6) 5, 117	[20.27]			15,118] [4,89] [23]
0, 1, 113	6	7 7	7 2 7 7 7	6 4
7)[1,2,11,3	Γο	[6,29,51]	[7,15,67,1	18] [4,23,89]
	,	4		, J
8) [1	, 2, 6, 11,	29,30,51]	[4,7,18,	23,67,89,118]
9)	Г1.2 Ц	67111	73.29.70	51,67,89,118]
	011019	10,7,11,11	, , , , , , , , ,	> 1 / 9 / 1 / 9 / 1 / 6 /
Quick Sort				
1) [11, 1, 3	0,2,51	, 6, 29, 7	, 67, 15, 118,	4,89,23]
2) [23, 1,	30.7.5	1 6 29 7	, 67, 15, 118	k 4 89 117
L L	307673			RPP
3) [4, 1,	30,2,5	1,6,29,	7,67,15,11	8, 23,89,11]
	4		<u> </u>	P

```
[4, 1, 7, 2, 51, 6, 29, 30, 67, 15, 118, 23, 89, 11]
4)
5)
    [4,1,7,2,6,51,29,30,67,15,118,23,89,11]
6)
    L4,1,7,2,6,11,29,30,67,15,118,23,89,51]
7)
    [4, 1, 7, 2, 6] [11] [29,30,67,15,118,23,89,51]
    [6,1,7,2,4][11] [51,30,67,15,118,23,89,29]
8)
    [2,1,7,6,4][11] [23,30,67,15,118,51,89,29]
9)
    [2,1,4,6,7] [11] [23,15,67,30,118,51,89,29]
10)
    [2,1][4][6,7][11] [23,15,29,30,118,51,89,67]
11)
   [1,2,4,6,7,11] [23,15] [29] [30,118,51,89,67]
    [1,2,4,6,7,11,15,23,29] [67,118,51,89,30]
(3)
    [1,2,4,6,7,11,15,23,29] [30,118,51,89,67]
14)
    [1,2,4,6,7,11,15,23,29,30] [118,51,89,67]
15)
    [1,2,4,6,7,11,15,23,29] [67,51,89,118]
16)
17) [1,2,4,6,7,11,15,23,29] [67,51,89] [118]
    [1,2,4,6,7,11,15,23,29] [89,51,67] [118]
18)
   [1,2,4,6,7,1], 15,23,29] [51,89,67] [118]
19)
   [1,2,4,6,7,11,15,23,29] [51,67,89][18]
20)
   [1,2,4,6,7,11, 15,23,29,51,67,89,118]
21)
```