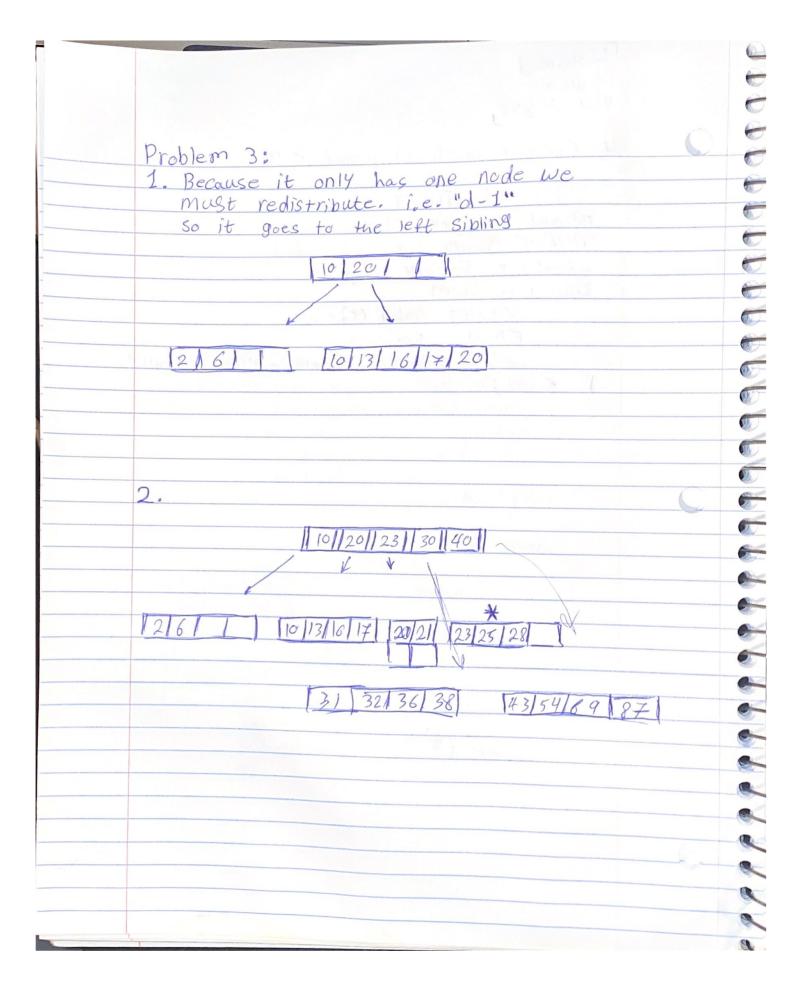
		THohamad Salaam 904076898, COMP5120 DOI	Final	
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2		Problem 1:		
2		1. True	() A A	
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Mohamad	
Salaam	(
904076898	
Problem 2:	
1: Print level and average age:	
I. Frint level aind average ego.	-
SELECT level, AVG(age) as average_age	6
FROM Student,	6
GROUP BY level;	
	•
2: seniors in John boe class:	
SELECT BISTINCT sname	-
FROM Student, Emoled, Class, Faculty	0
WHERE student. snum = Enrolled. GNUM	
AND Enrolled, chame - Class. chame AND class. Fid = Faculty. Fid	(
AND Student, level = 'SR'	•
AND Faculty. Iname = 'John Doe';	
The Directory, That is a second of the secon	
3: Shelby 1120 or 3 students or more	•
SELECT SISTINCT chame	
FROM Class	
WHERE room = 'Shelby 1120'	
OR chame IN (
SELECT	•
FROM GROUP BY	6
MAVING COUNT (*) >= 3	•
);	

Mohamad Salam 904076898, 4: Faculty with enrollment < 10 SELECT DISTINCT frame FROM Faculty, Class WHERE Faculty fid = class fid GROUPBY Faculty fid HAVING SUM SELECT count (*) FROM Enrolled
WHERE Enrolled, chame = class, chame < 10;



Problem 4: 1. These 2 methods are used to improve disk Performance and fault tolerance. Data striping sends data to multiple disks to Make access easier and increase read/write Performance Redundency makes copies in multiple disks 2. Buffer manager manages data that is read from the disk. It essentially tries to minimize disk read requests that are needed by the user It checks if needed page is already in thememory If it isn't, it Places it in afree buffer slot and if there are no Slots it removes a previous unneeded regust for the new one Color Management of the Color o The Contraction of the Contracti

3. This pulls up quaries without accessing the data page, using the indexes that have all the needed data in the quary. An Example 13: SELECT pame, age FROM Student WHERE id = 1234' I the database is correctly made with indexes it can get needed dat without the Page it self. 4. ISAM are binary search trees that are balanced and store the data and Indexes separatley B+ does the starage in the same file, but it gets the key value corresponding to the data in the same block. ISAIM gets the key value from the index file with the corresponding data in the file Bt is better for range quaries because it's Storage is done in sequential order.