

Last name	
First name	
Group	
Tutorial Teacher	

Grade	
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Algorithmics
Undergraduate 2nd year - S3
Midterm #3 (C3)
9 November 2020 - 13 : 30
Answer Sheets

1	
2	
3	
4	
5	

Answers 1 (Some different results – 5 points)

Draw the hash tables corresponding to the different collision resolution methods:

1. Coalesced hashing:

0		
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

2. Linear probing:

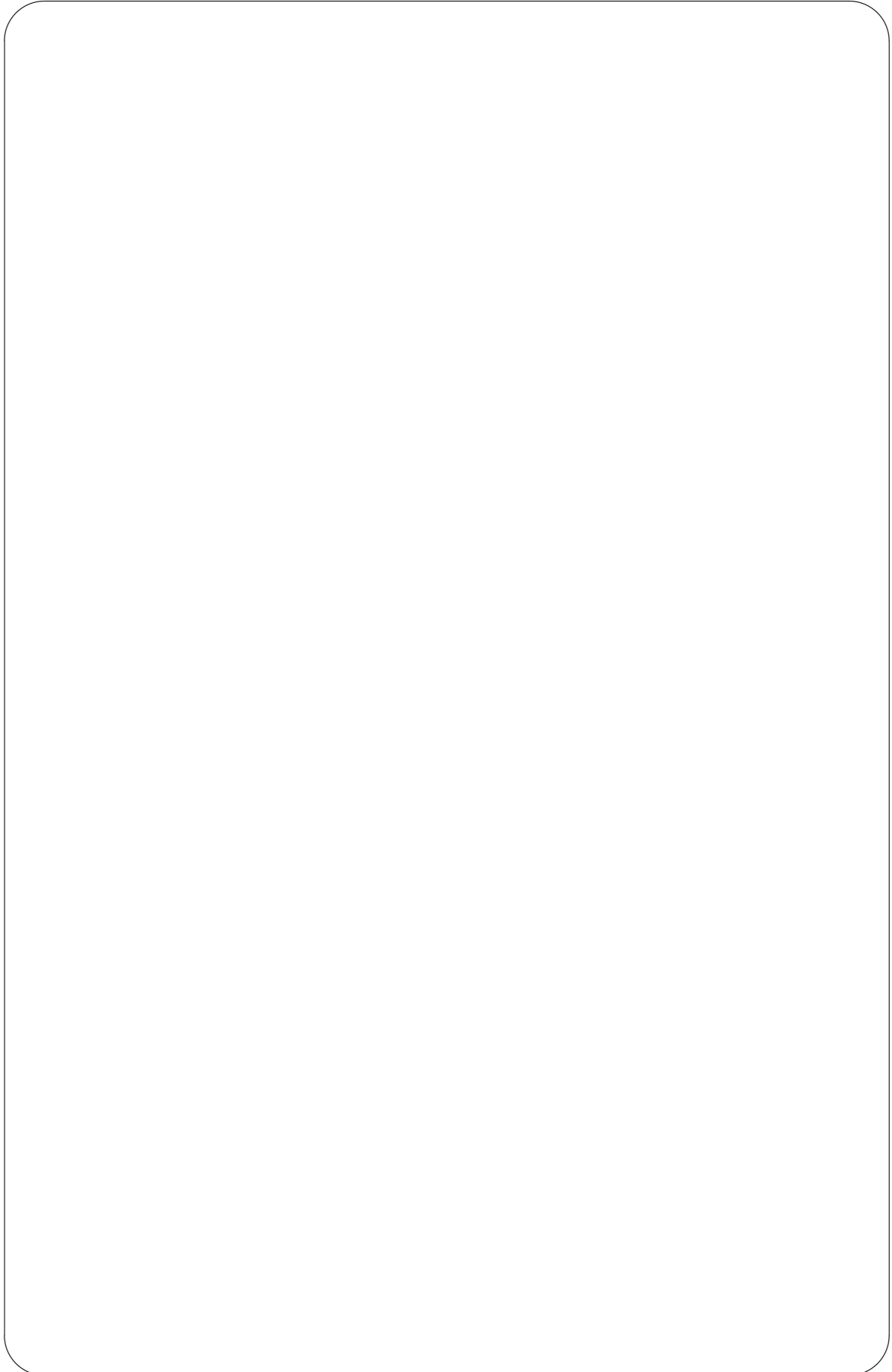
0	
1	
2	
3	
4	
5	
6	
7	
8	
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10	

3. Double hashing:

0	
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	

Answers 5 (B-tree: insertion and deletion – 3 points)

1. Tree after the insertion of the value 39 (you can tilt the sheet and draw the tree in landscape format):



2. Tree after the deletion of the value 72 (you can tilt the sheet and draw the tree in landscape format):

