

# B+ tree example

# Example

- Insert nodes one-by-one in the following order:
  - 1,3,5,7,9,2,4,6,8,10
- Assume that each page can hold 3 keys

Insert 1, 3, 5, 7, 9, 2, 4, 6, 8, 10

- Insert 1

<b>1</b>			
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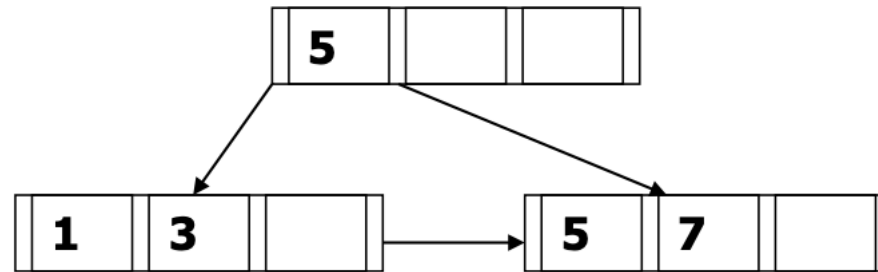
Insert 1, 3, 5, 7, 9, 2, 4, 6, 8, 10

- Insert 3, 5

<b>1</b>	<b>3</b>	<b>5</b>	
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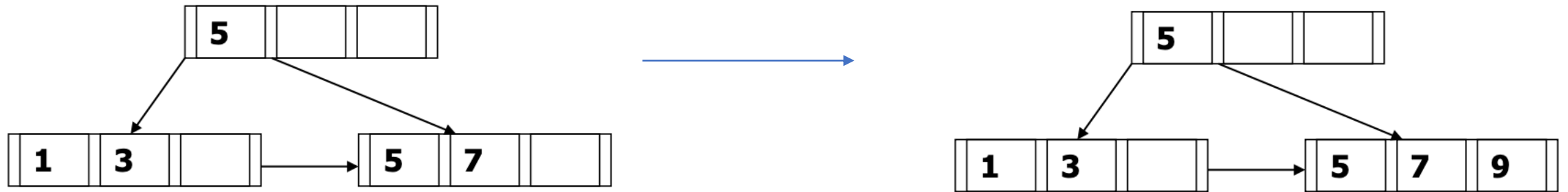
Insert 1, 3, 5, **7**, 9, 2, 4, 6, 8, 10

- Insert 7



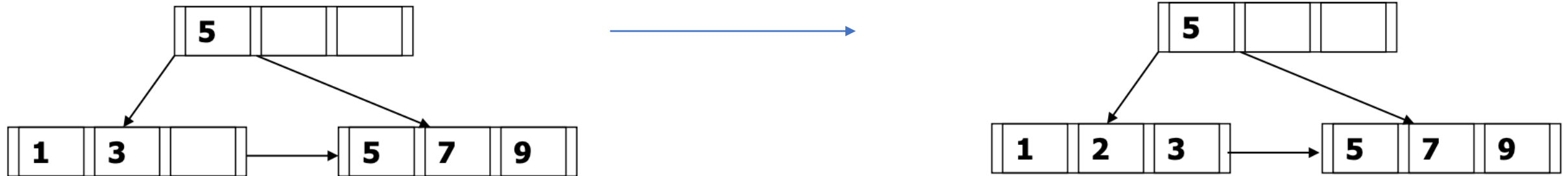
Insert 1, 3, 5, 7, **9**, 2, 4, 6, 8, 10

- Insert 9



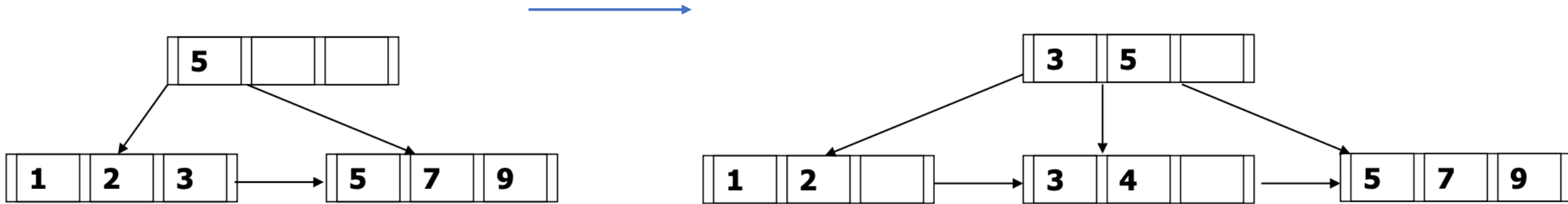
Insert 1, 3, 5, 7, 9, **2**, 4, 6, 8, 10

- Insert 2



Insert 1, 3, 5, 7, 9, 2, **4**, 6, 8, 10

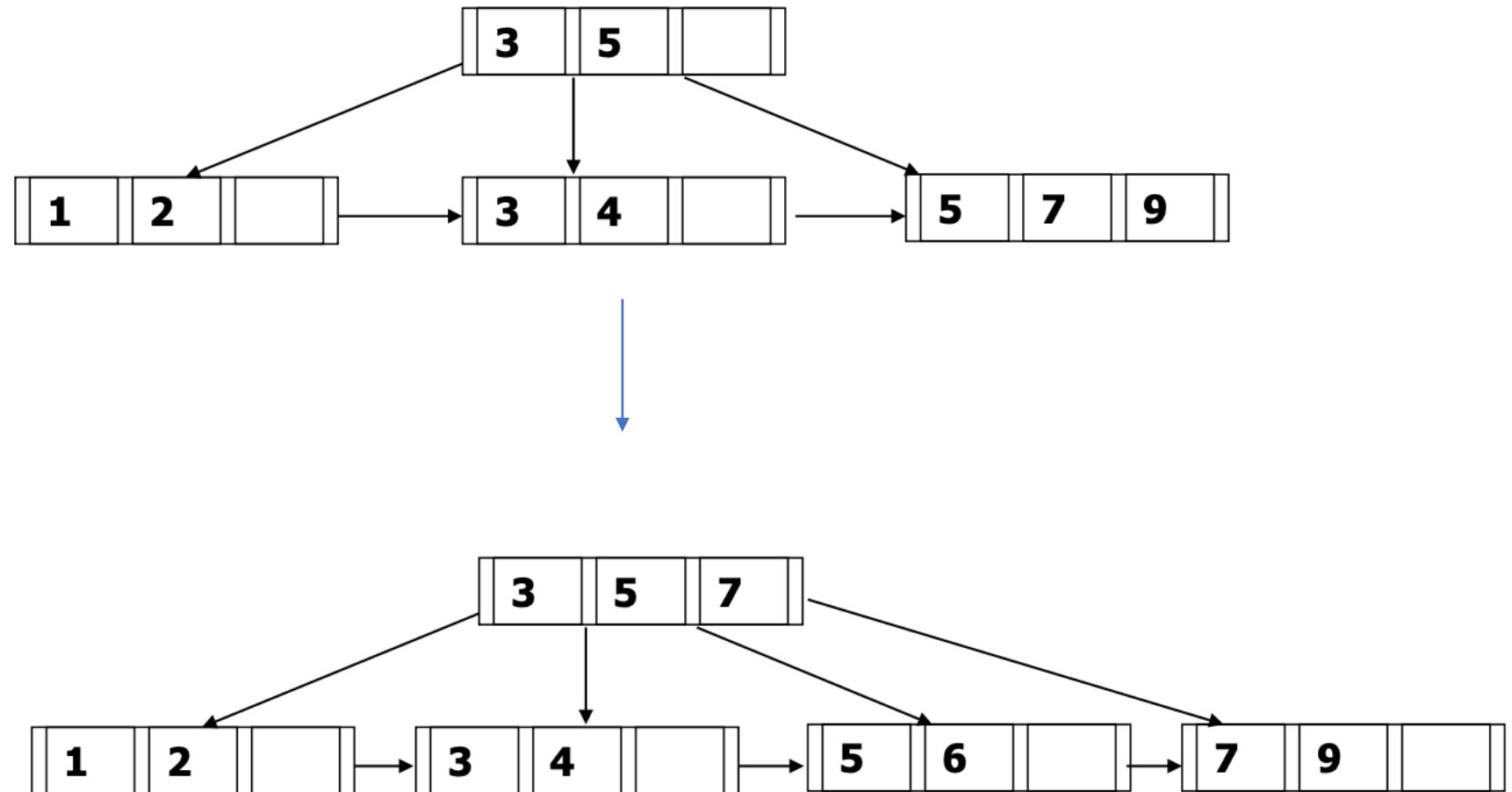
- Insert 4





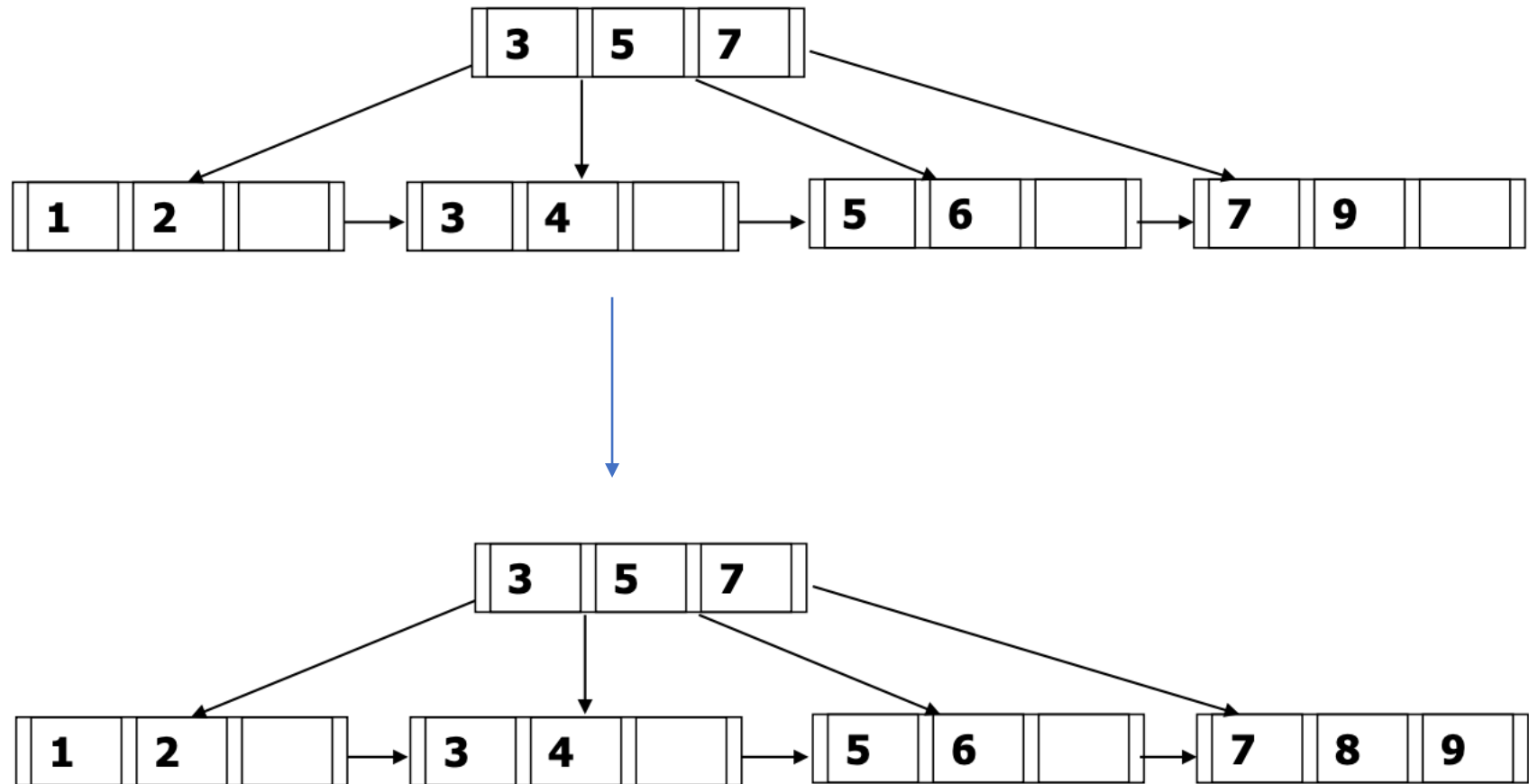
# Insert 1, 3, 5, 7, 9, 2, 4, 6, 8, 10

- Insert 6



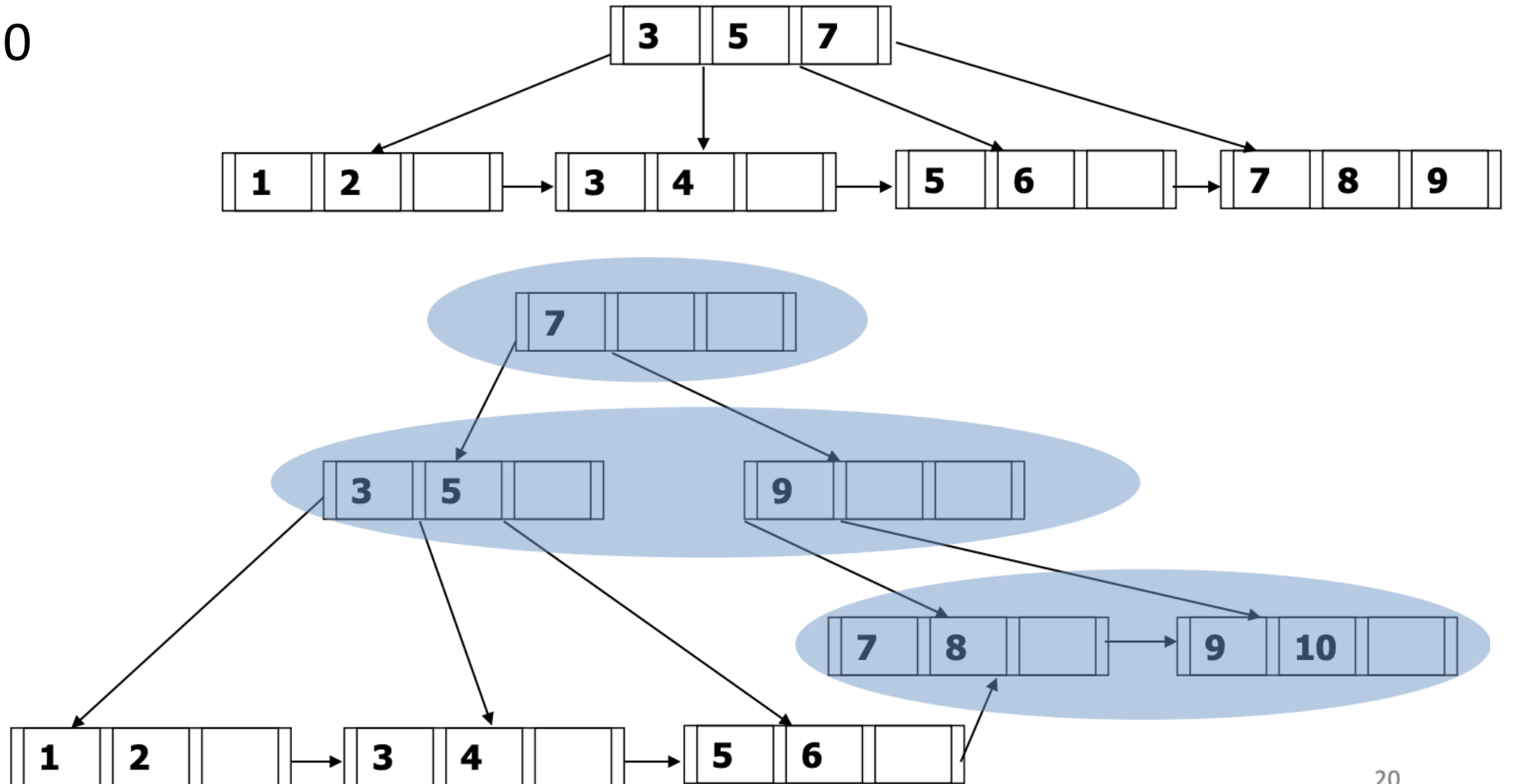
# Insert 1, 3, 5, 7, 9, 2, 4, 6, 8, 10

- Insert 8

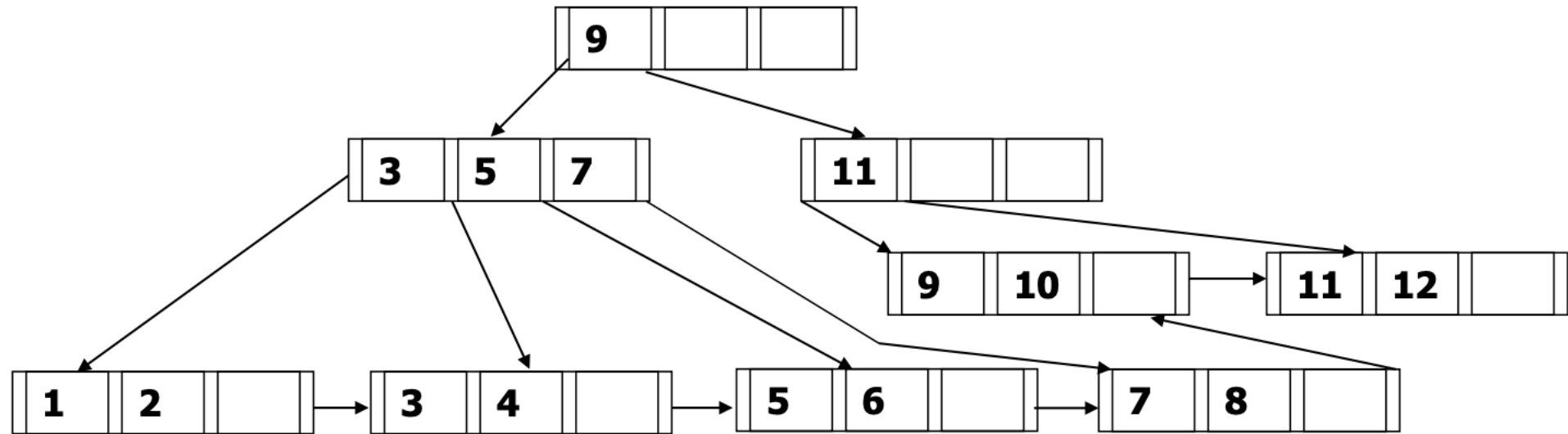


# Insert 1, 3, 5, 7, 9, 2, 4, 6, 8, 10

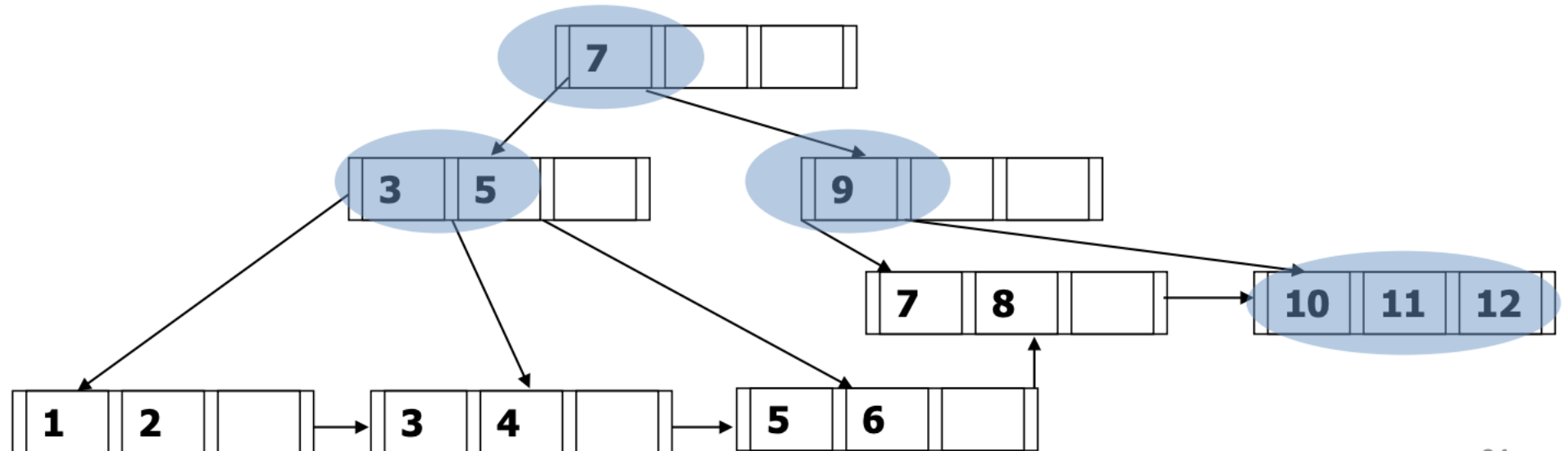
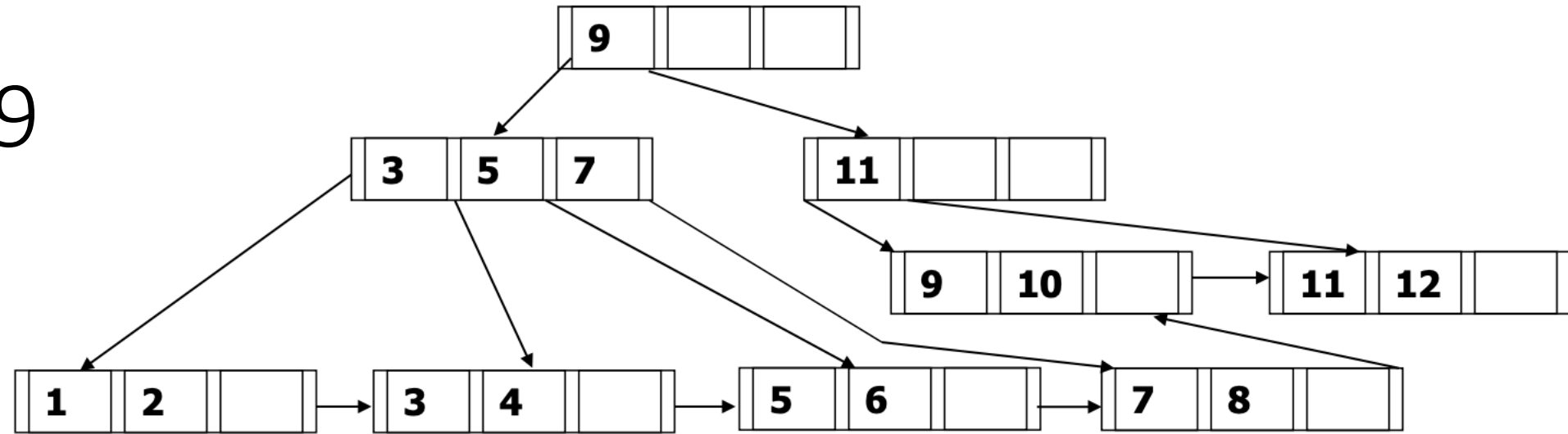
- Insert 10



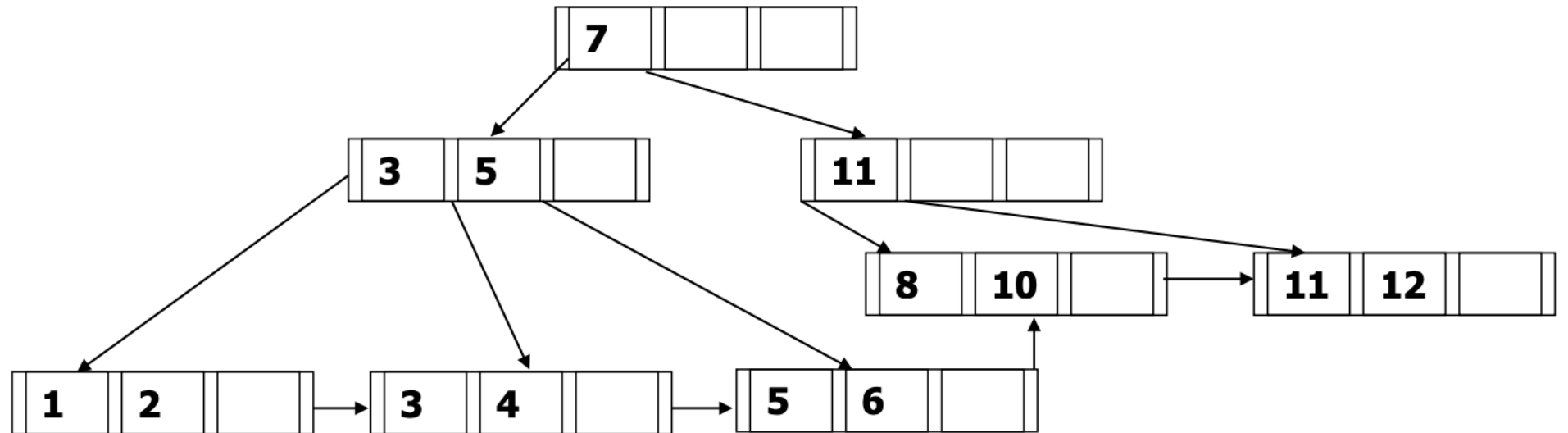
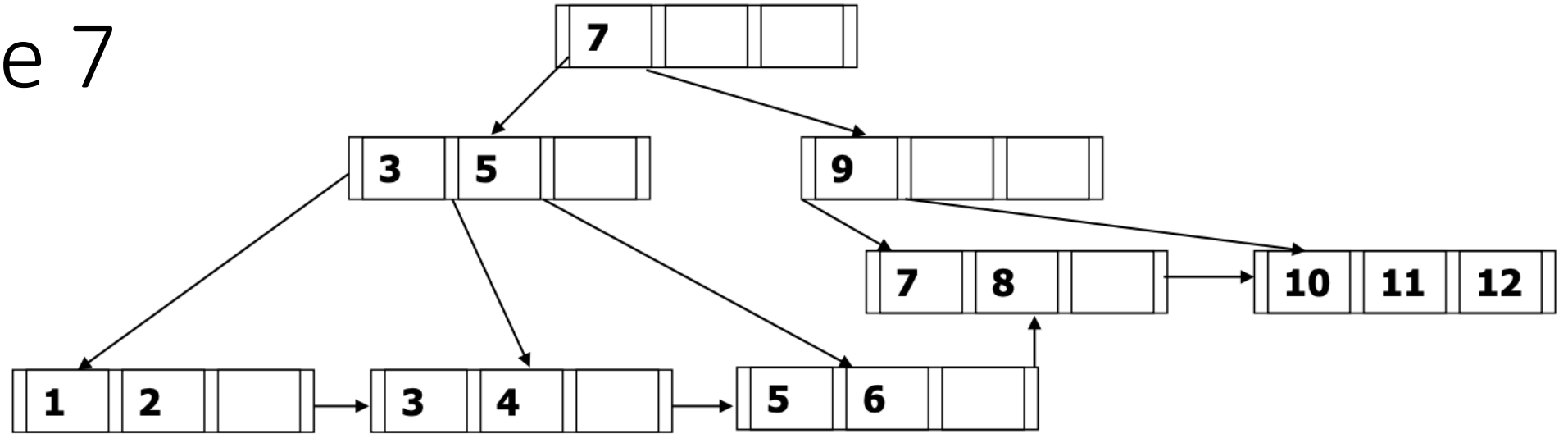
Delete 9, 7, 8



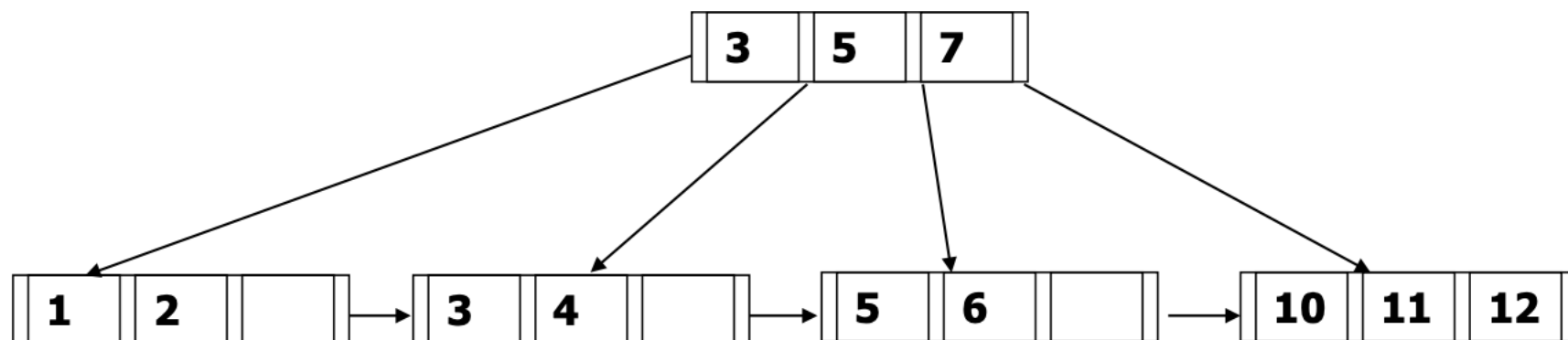
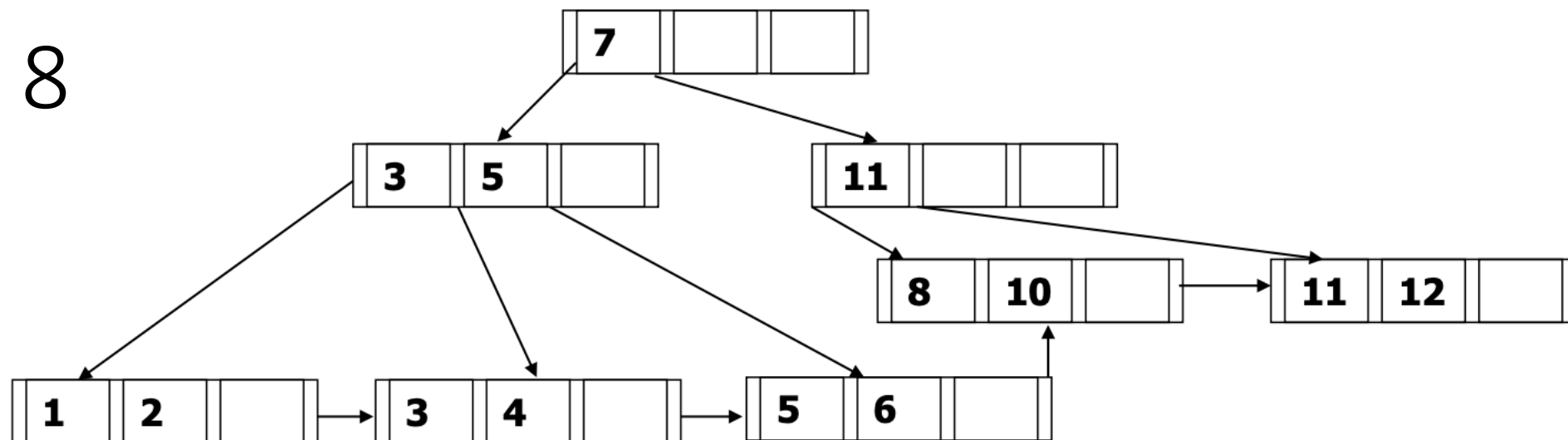
# Remove 9



# Remove 7



# Remove 8



Insert 1, 3, 5, 7, 9, 2, 4, 6, 8, 10



