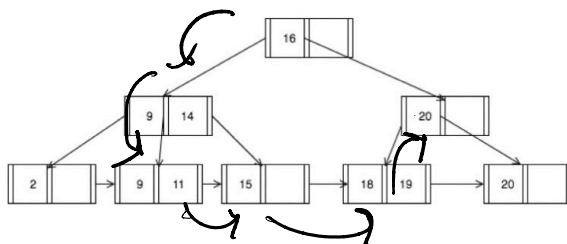


Q1.1

Question 1 (33 points)

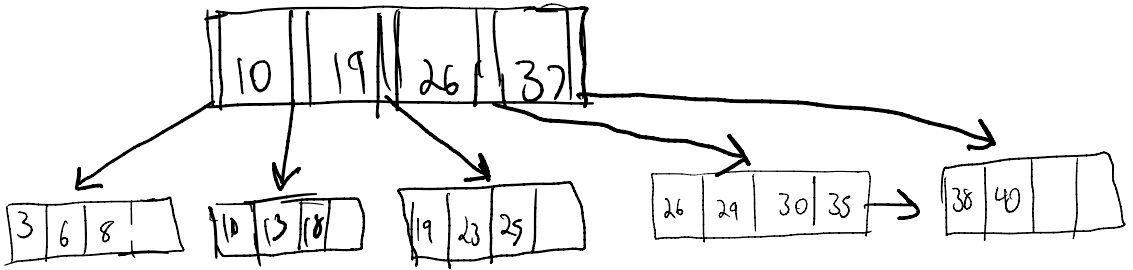
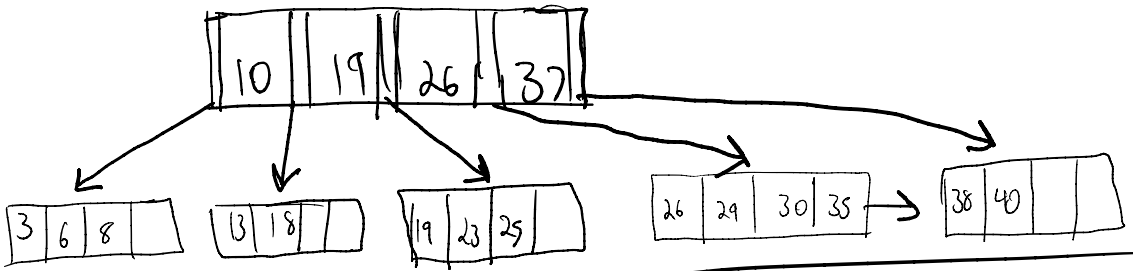
Q1.1(3 points): Consider the B+ tree in Figure 3, what is the minimum number of pointers to be followed to satisfy the query: Get all records with keys greater than 11 and less than 20?



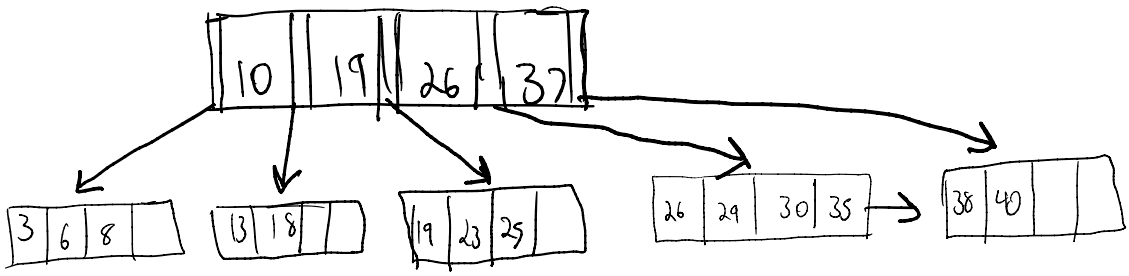
Your answer: 5

Q1.2.1

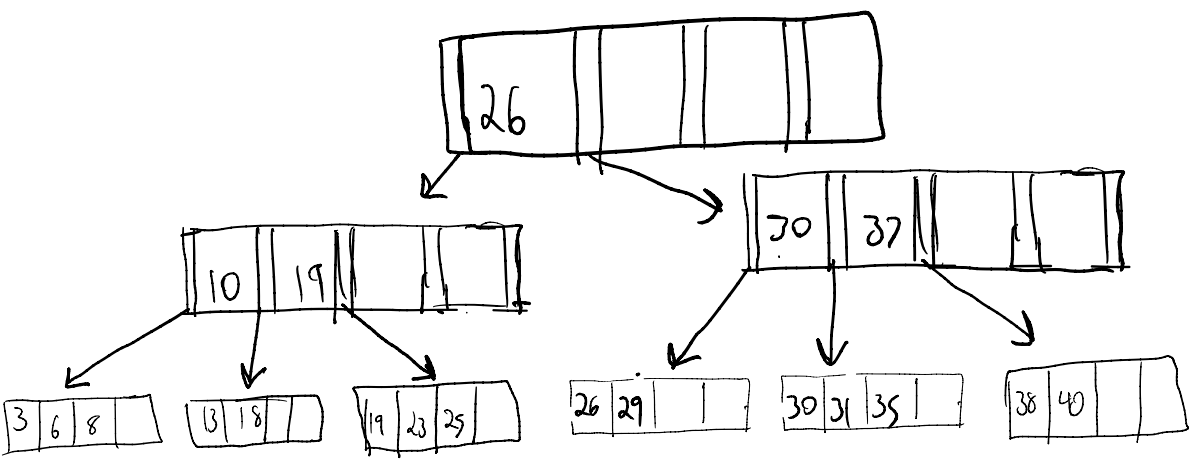
original for reference



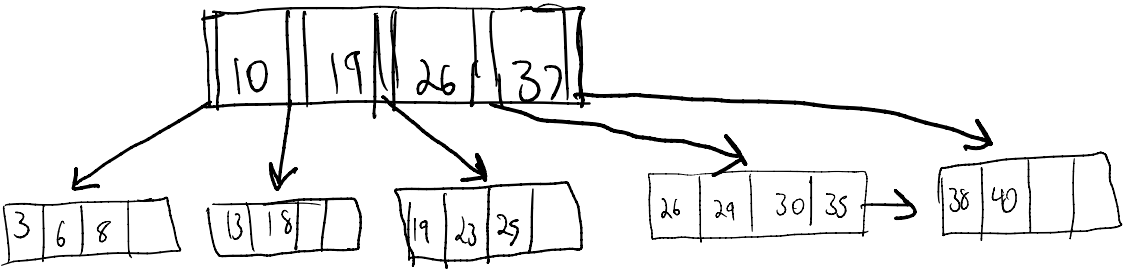
1.2.2



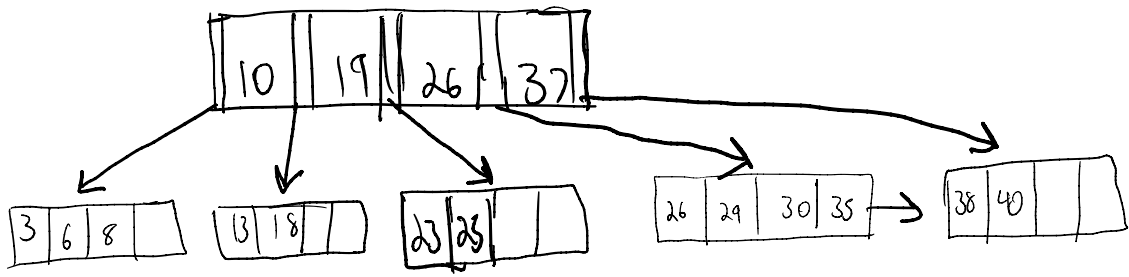
insert 31



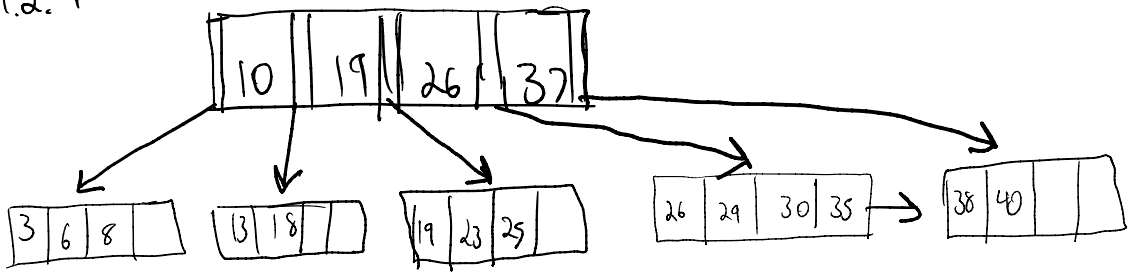
1.2.3



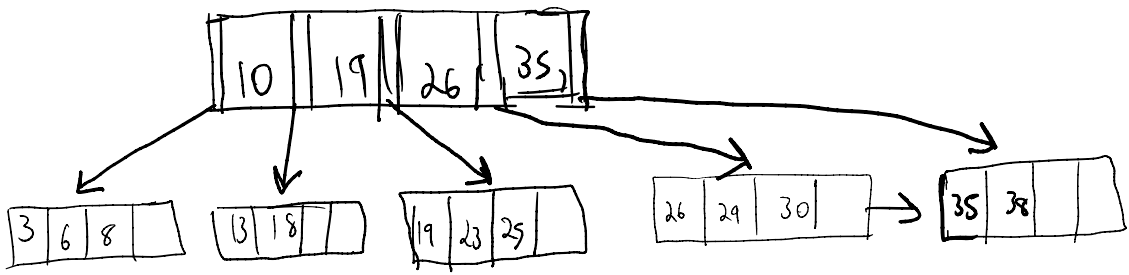
delete 19



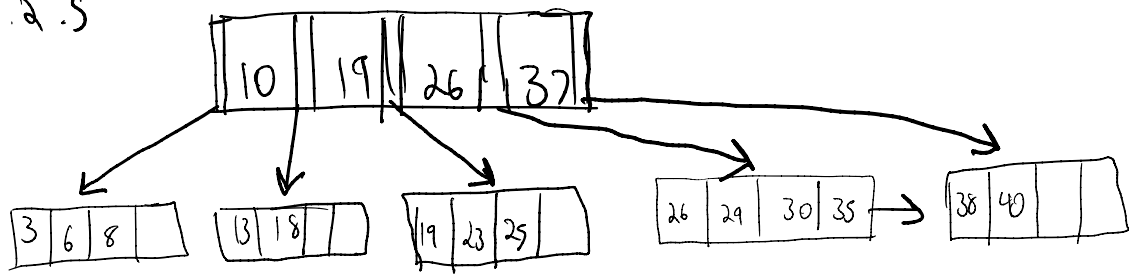
1.2.4



delete 40



1.2.5



delete 18

