

Q4 [15 pts]

Assume that table T is defined in the same way as in question 2. You execute a query: "select * from T where Id=54321". How many blocks and how many bytes will be read from the disk? Show your calculations.

You answer (just two numbers: # of blocks; # of Mbytes):

You calculations:

Q5 [10 pts]

Is this a valid B+ tree?

	3		5			
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Q6 [15 pts]

Construct (draw a final result) a B+ tree for n=2 and for the following set of key values {1,3,5,6,7,8,9,13,14,15,16}

Assume that the keys are inserted one by one in the order of their appearance in the list.

Q7 [15 pts]

Construct (draw a final result) a B+ tree for n=5 and for the following set of key values {3, 7, 8, 9, 10, 12, 15, 19, 21, 23, 24, 26, 27, 29, 32, 35, 40, 50, 51, 52}.

Assume that the keys are inserted one by one in the order of their appearance in the list.