

Last name	
First name	
Group	

Grade	
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**Algorithmics**  
**Undergraduate 1<sup>st</sup> year S2**  
**Final Exam #2 (P2)**  
**30 May 2018 - 14 : 00**  
**Answer Sheets**

1	
2	
3	
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**Answers 1 (AVL – 3 points)**

<i>Final AVL:</i>	<i>Rotations:</i>
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**Answers 2 (Leonardo trees – 3 points)**

1. Graphical representation of  $A_5$ :





Answers 5 (BST and mystery – 4 points)

1. Returned results?

- (a) `call(25, B1)` : \_\_\_\_\_
- (b) `call(21, B1)` : \_\_\_\_\_
- (c) `call(20, B1)` : \_\_\_\_\_
- (d) `call(9, B1)` : \_\_\_\_\_
- (e) `call(53, B1)` : \_\_\_\_\_

2. `bst_mystery(x, B)` (B any BST, with distinct elements).

At the end of part 1:

(a) What does *B* represent?

\_\_\_\_\_  
\_\_\_\_\_

(b) What does *P* represent?

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

3. What does `call(x, B)` do?

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

