

Last name	
First name	
Group	

Grade	
-------	--

Algorithmics
Undergraduate 1st year S2#
Final Exam #2 (P2)
January, 7th 2020 - 13h-15h
Answer Sheets

1	
2	
3	
4	
5	

Answers 1 (Leonardo trees – 3 points)

1. Graphical representation of A_5 :

2. (a) $h_n =$ _____

- (b) *Prove that the tree A_n is height-balanced.*

[illegible][illegible]

[illegible]

Answers 4 (AVL – 3 points)

<p><i>Tree built by insertions of 25, 60, 35, 10, 20:</i></p>	<p><i>Rotations:</i></p>
<p><i>Tree after insertions of 5, 70, 65:</i></p>	<p><i>Rotations:</i></p>

Answers 5 (What is this? – 3 points)

1. *Results for*

(a) `test(B_1)`: _____

(b) `test(B_2)`: _____

2. *What does the function `test(B)` do??*

3. *How to optimize this function?*
