

Last name	
First name	
Group	

Grade	
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Algorithmics
Undergraduate 2nd year (S3)
Midterm #3 (C3)
24 October 2016 - 14 : 45
Answer Sheets

1	
2	
3	
4	
5	
6	

Answers 1 (Linear probing – 2 points)

Present the collision resolution using the linear probing principle with an offset coefficient $d = 4$:

0	
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	

Answers 2 (Hashing: Valid tables – 3 points)

Surround the tables which can not be the result of insertion of the keys (regardless of arrival order of these keys).

A - B - C - D

1. Three properties: (a) _____

(b) _____ (c) _____

[illegible]

Answers 5 (Equality – 5 points)

[illegible]

Answers 6 (B-Trees and Mystery – 3 points)

1.

	<i>Returned result</i>	<i>Call number</i>
(a) <code>mystery(B_1, 1, 77)</code>		
(b) <code>mystery(B_1, 10, 30)</code>		

2. What does *mystery*(*B*, *a*, *b*) calculate?
