Last name	
First name	Crada
Group	Grade
$\begin{array}{c} \qquad \qquad$	1 2 3 4
Answer Sheets	5
Answers 1 (A little coursework – 4 points)	6
1. Measures:	
(a) The size of the tree B is:	
(b) The height of the tree B is:	

- (c) The path length of the tree ${\tt B}$ is:
- (d) The external average depth of the tree ${\tt B}$ is:
- 2. Using the hierarchical numbering, the nodes of the tree ${\tt B}$ are :

Answers 2 (Maximum Gap – 4 points)

Specifications:

The function maxgap(M) returns the maximum gap of lines of the non empty matrix M.

Answers 3 (Research – 4 points)

Specifications:

The function searchMatrix(M, x) returns the position (i, j) of the first value x found in the non empty matrix M. If x is not present, the function returns (-1, -1).

Answers 4 (Tests – 4 points)

Specifications:

The function equal(B1, B2) tests whether the trees B1 and B2 are identical.

Answers 5 (Leaves – 2 points)

Specifications:

The function leaves(B) computes the number of leaves in the binary tree B.

Answers 6 (Mystery – 3 points)

1. Tree that results of the application of mystery(L):

- 2. (a) The tree is BST if the list is
 - (b) The tree is perfect if the list is