BLG 335E

Analysis

of

Algoritms 1

Fall 2015

Homework 5

Ozan Özyeğen

150120115

Part B

1. When we try to update the age of a person, only changing the age is not enough since the update operation changes the structure of the binary search tree. Thus, we first need to delete the node from the tree. Then, after changing the age, we can insert back the node. Doing this will preserve the tree structure. Therefore, the update operation will be correct.
2. Updating the gender of a person will not harm the structure of the binary search tree. Hence, in order to do this operation, we first need to find that person’s node in the tree. Then, we can change his/her gender information.