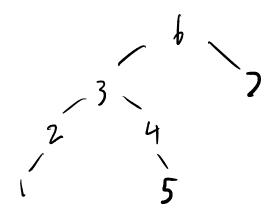
## Ex.37

Consider the following BST:



Say we want to find the successor of 5. We go up-left until the first right which is our successor. The reason is as follows:

If b is the successor of 5, 5 is the predecessor of b. To find the predecessor of b. We need the largest value smaller than it, so we descend into the left subtree and then go down-right until we can't anymour. (more detailed explanation in Ex. 38).

first 6
3 all rights until
4 the end
5

They for ne do the opposite of this to get from 5 to b. We keep going up-lett, undoing all the down - rights until ne get to our first up-right, undoing our original down - lett, getting to the successor.

up-right, undoing down-left

3

up-left, undoing

down-rights