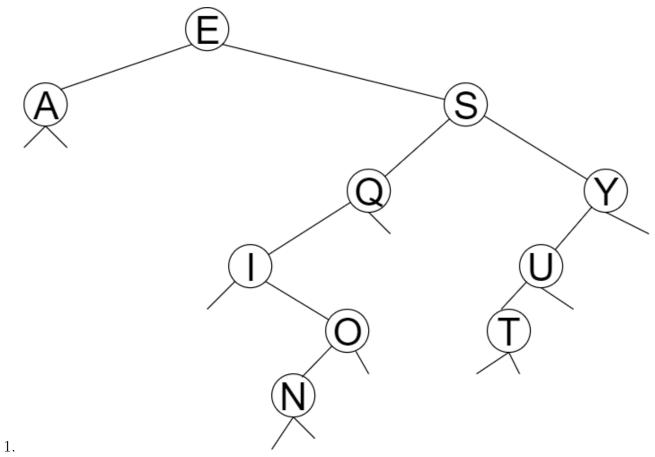
Exercise 1



We have: 0 comparisons for E, 1 for A, 1 for S, 2 for Y, 2 for Q, 3 for U, 1 for E, 2 for S, 4 for T, 3 for I, 4 for O, 5 for N for a total of 28 comparisons

- 2. XSRHECA or ACXEHRS
- 3. H C S A E R X or H S C E A X R

Exercise 3

We observe that the new implementation performs better than the old one. This might be due to the fact that we do not require the method rank() anymore which might cut the time needed to execute the get() and put() methods. Plus, since there is no array anymore, we do not need to resize it whenever the size of it is too small during a put.