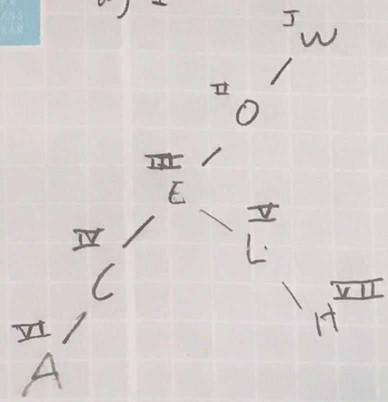
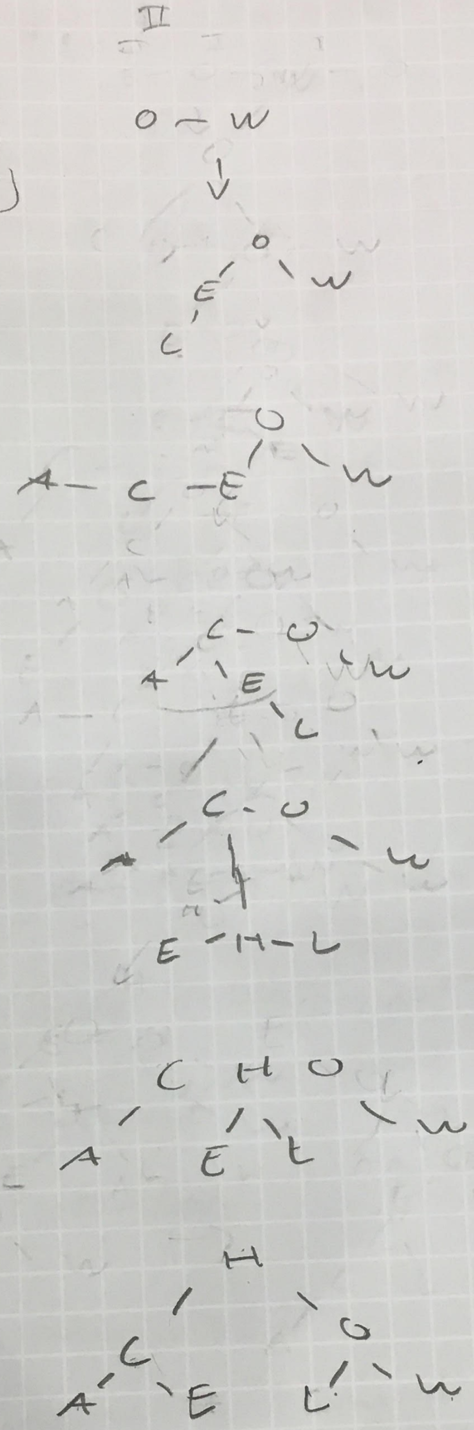
Binary Search Tree

W O E C A L H
23 15 5 3 12 1 8

a) I



// [illegible]



b	2
c	3
d	4
e	5
f	6
g	7
H	8
i	9
J	10
K	11
L	12
M	13
N	14
O	15
P	16
Q	17
R	18
S	19
T	20
U	21
V	22
W	23
X	24
Y	25
Z	26

RE - (N - V - H)
N - (V - N - H)
ST - (V - H - N)

b) Ia W O E C A L H

Ia H C A E O L W

IIa A C E H L O W

IIb A C E H L O W

IIIa A C H L E O W

IIIb A E C L W O H

2) 3014, 4711, 4712, 4713

3014, 4712 are even and thus have more prime factors which are undesireable
then we look at 4711 and 4713 which have an equal amount of prime
then we take the bigger number for greater efficiency.