## Exercise 1

EYEWITNESSNEWS

E: 4

Y: 1

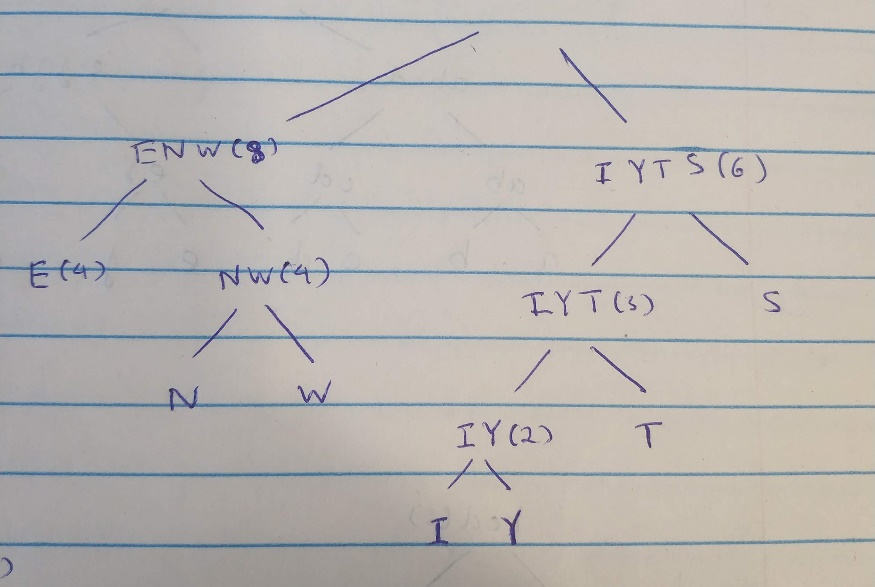
W: 2

I: 1

T:1

N: 2

S: 3

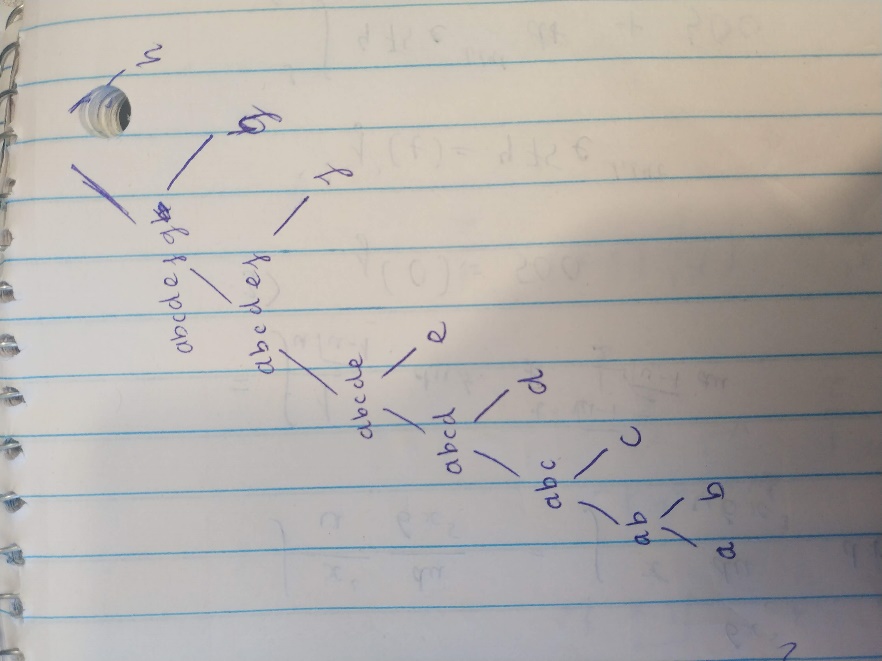


E 00, N 010, W 011, I 1000, Y 1001, T 101, S 11

## Exercise 2

1.

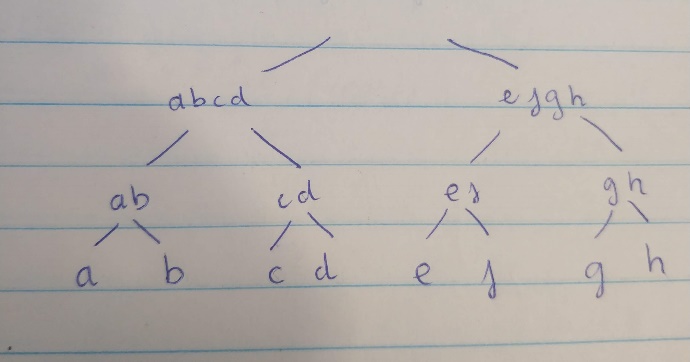
|  |  |
| --- | --- |
| a | 1 |
| b | 1 |
| c | 2 |
| d | 3 |
| e | 5 |
| f | 8 |
| g | 13 |
| h | 95 |



Length of encoded file: = 7+7+6\*2+5\*3+4\*5+3\*8+2\*13+95=206 bits

2.

|  |  |
| --- | --- |
| a | 16 |
| b | 16 |
| c | 16 |
| d | 16 |
| e | 16 |
| f | 16 |
| g | 16 |
| h | 16 |



Length of encoded file 3\*16\*8 = 384 bits