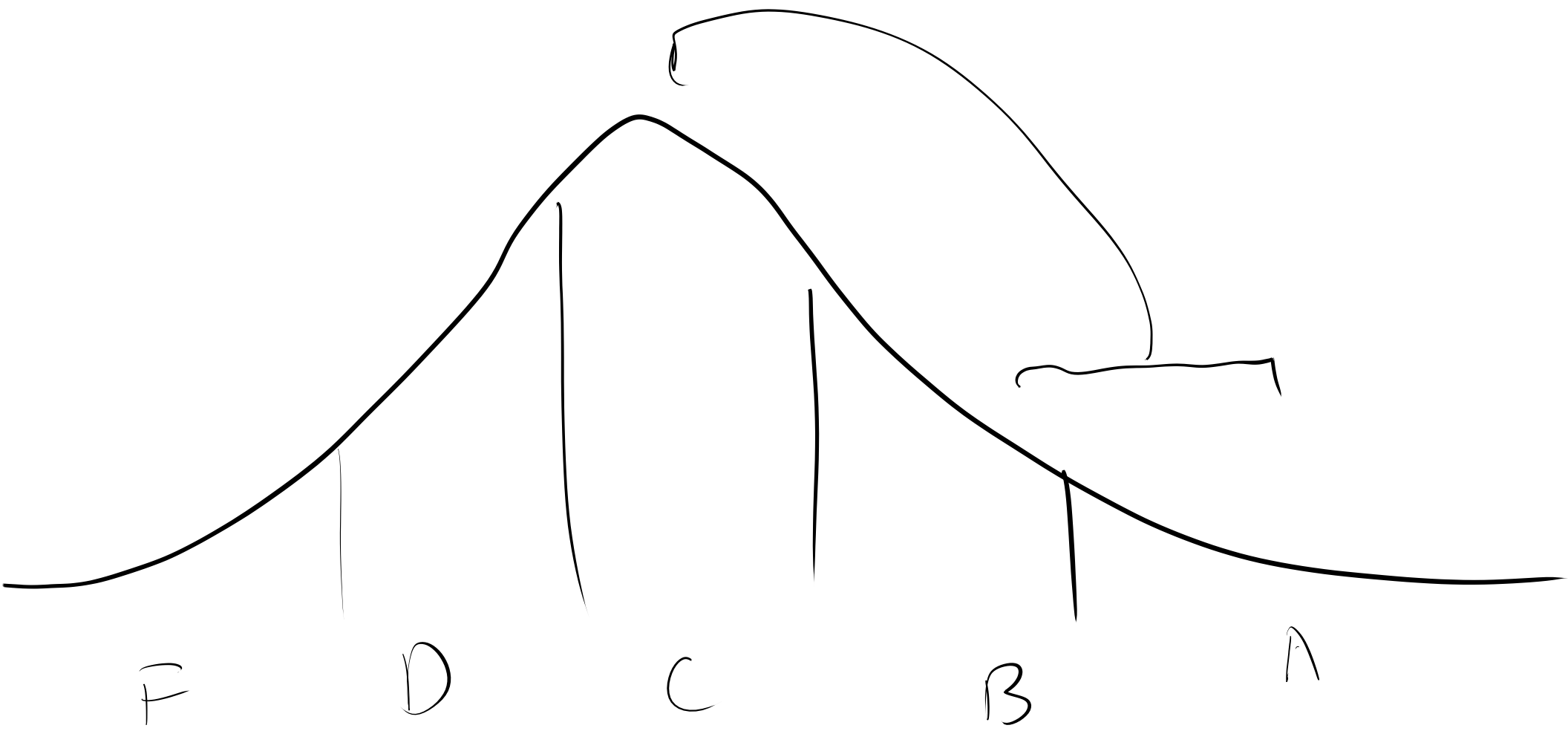


CS 340



Luther

Tai (ON) of Tech



→ Enumeration

→ Sequence

Reference

Function

0

1

2

3

4

→ 5

6

7

8

9

$$\begin{array}{r} \boxed{999999} \\ + \quad \quad \quad 1 \\ \hline 1000000 \end{array}$$

x10

340

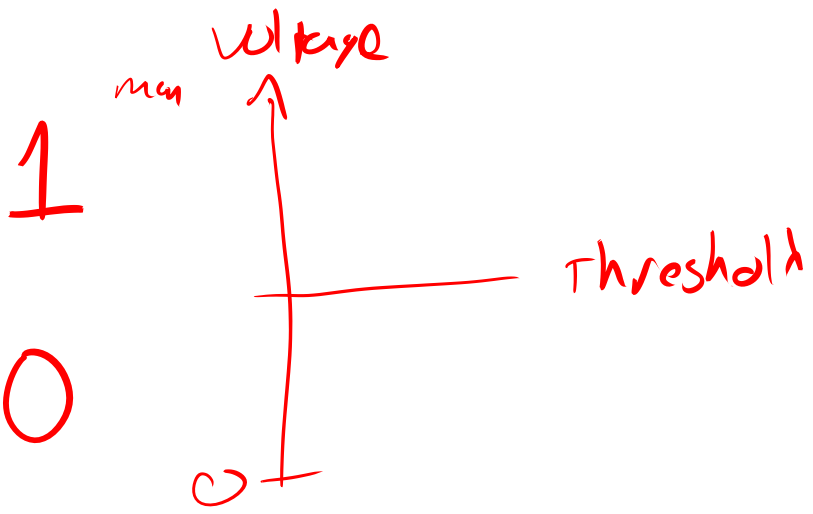
x100

124255

100 1

1000 10

10 place



2 place

$$\begin{array}{cccccc}
 32 & 8 & 2^1 & 2^0 & & \\
 1 & 1 & 1 & 1 & 1 & 1 \\
 16 & 4 & & & & \\
 \hline
 & & & & & = 63 \\
 10000000 & = & 64
 \end{array}$$

$$\begin{array}{l}
 \overbrace{101010100}^5 \\
 \underbrace{\quad \quad \quad}_2 \quad \underbrace{\quad \quad \quad}_4 \\
 0524 \\
 00524 \\
 \text{Octal}
 \end{array}$$

$$\begin{array}{cccc}
 \times 128 & \times 32 & \times 8 & \times 2 \\
 | 0 & | 0 & | 0 & | 00 \\
 \hline
 \times 256 & \times 64 & \times 16 & \times 4
 \end{array}$$

$$256 + 64 + 16 + 4 = 340$$

0 1 2 3 4 5 6 7 8 9 a b c d e f

1
4
10101000
5

Hexadecimal

0x154