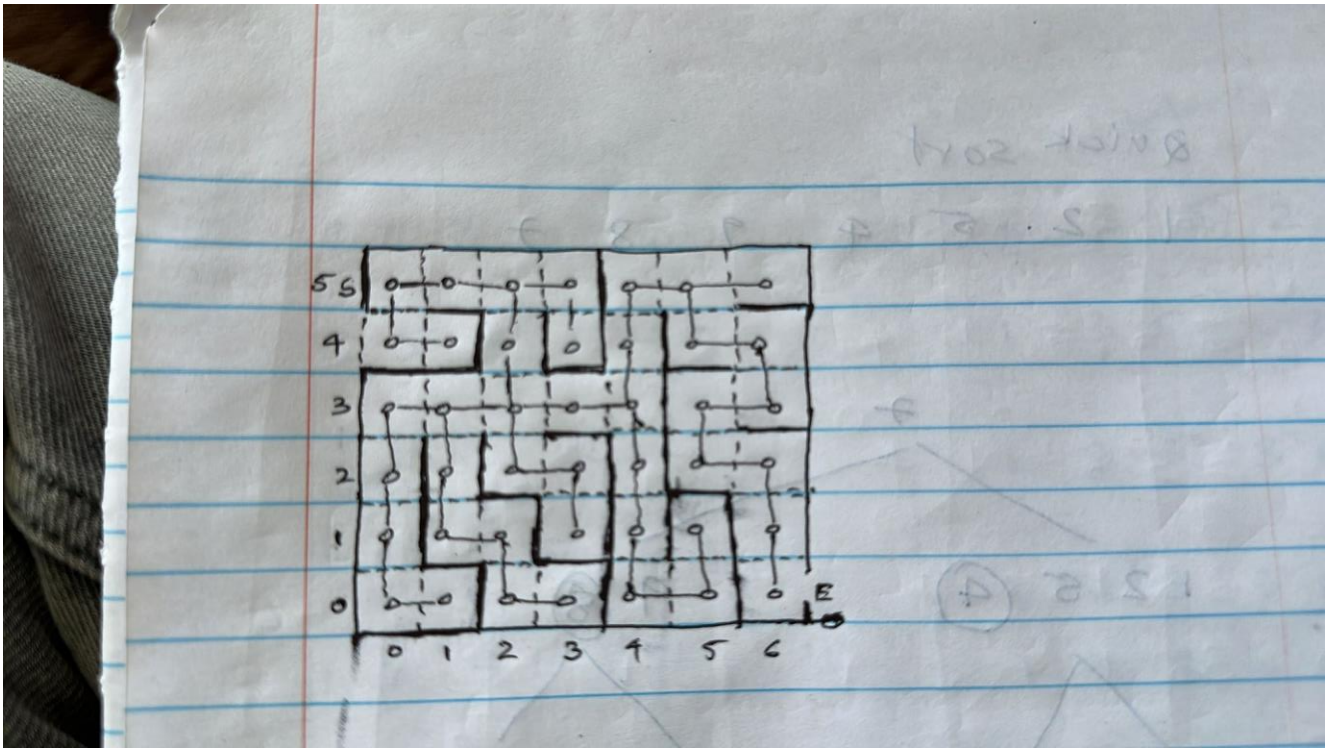
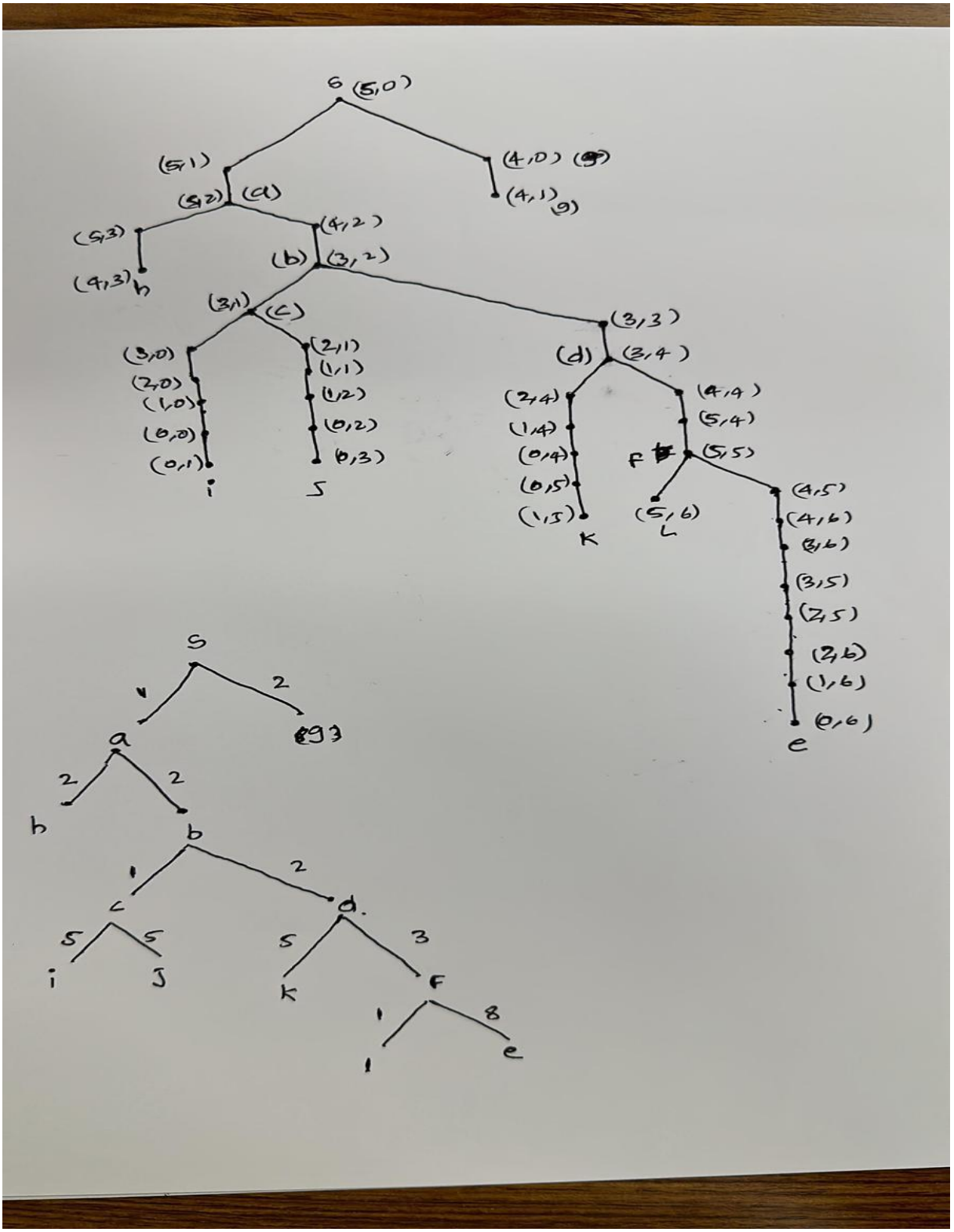
Week11q1




S (5,0)
(5,1)
(4,0)
(5,2) (a)
(4,1)
(5,3)
(4,2)
(4,3) h
(b) (3,2)
(3,1) (c)
(3,3)
(3,0)
(2,1)
(d) (3,4)
(2,0)
(1,1)
(2,4)
(4,4)
(1,0)
(1,2)
(1,4)
(5,4)
(0,0)
(0,2)
(0,4)
F
(5,5)
(0,1) i
(0,3) J
(0,5)
(4,5)
(1,5) K
(5,6) L
(4,6)
(3,6)
(3,5)
(2,5)
(2,6)
(1,6)
(0,6) e
S
1
2
a
2
2
h
b
1
2
c
d
5
5
5
3
i
J
K
F
1
8
1
e

BFT

intialize

	s	a	g	h	b	c	d	i	j	k	f	l	e
visited	0	0	0	0	0	0	0	0	0	0	0	0	0

Queue:

Step2

Add s to queue and mark visited

	s	a	g	h	b	c	d	i	j	k	f	l	e
visited	1	0	0	0	0	0	0	0	0	0	0	0	0

Queue:1

Step 3

Remove s from queue,print s

	s	a	g	h	b	c	d	i	j	k	f	l	e
visited	1	0	0	0	0	0	0	0	0	0	0	0	0

Queue:

Print: s

Step4

Add s adjacent nodes to que and mark visited

	s	a	g	h	b	c	d	i	j	k	f	l	e
visited	1	1	1	0	0	0	0	0	0	0	0	0	0

Queue: a g

Print: s

Step5

Remove a from queue,print a,add a adjacent nodes to queue and mark visited

	s	a	g	h	b	c	d	i	j	k	f	l	e
visited	1	1	1	1	1	0	0	0	0	0	0	0	0

Queue: g h b

Print: s a

Step6

Remove b from queue,print b,add b adjacent nodes to queue and mark visited

	s	a	g	h	b	c	d	i	j	k	f	l	e
visited	1	1	1	1	1	1	1	0	0	0	0	0	0

Queue: g h c d

Print: s a b

Step7

Remove c from queue,print c,add c adjacent nodes to queue and mark visited

	s	a	g	h	b	c	d	i	j	k	f	l	e
visited	1	1	1	1	1	1	1	1	1	0	0	0	0

Queue: g h c d

Print: s a b c

Step8

Remove d from queue,print d,add d adjacent nodes to queue and mark visited

	s	a	g	h	b	c	d	i	j	k	f	l	e
visited	1	1	1	1	1	1	1	1	1	1	1	0	0

Queue: g h c k f

Print: s a b c d

Step9

Remove f from queue,print f,add f adjacent nodes to queue and mark visited

	s	a	g	h	b	c	d	i	j	k	f	l	e
visited	1	1	1	1	1	1	1	1	1	1	1	1	1

Queue: g h c k l e

Print: s a b c d f

Process continues until queue is empty

	s	a	g	h	b	c	d	i	j	k	f	l	e
visited	1	1	1	1	1	1	1	1	1	1	1	1	1

Queue:

Print: s a b c d e f g h I j k l