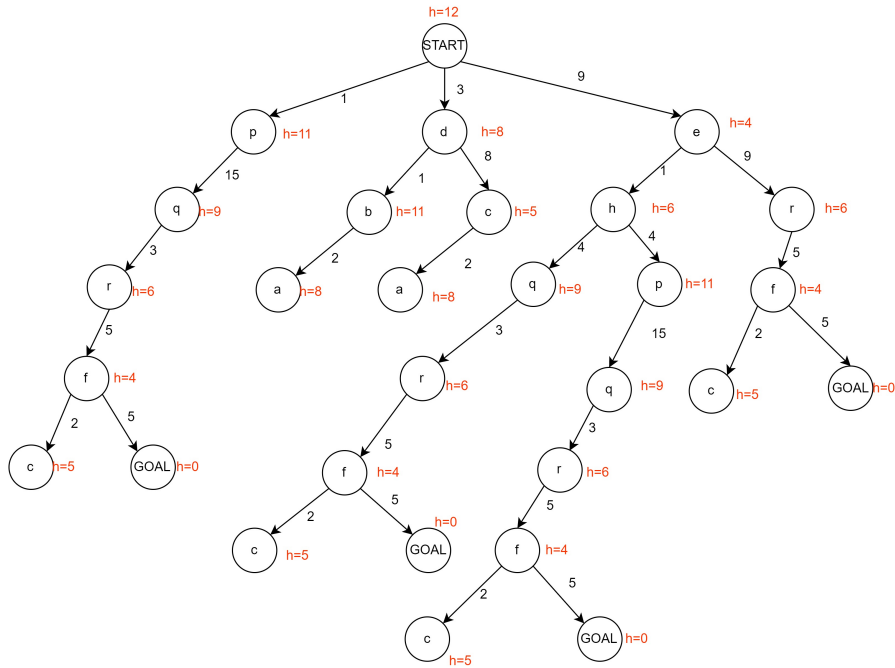


PR-2

Breadth First Search

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S =START
G = GOAL

1

initial step

Q : (S)

Visited : S

s

2

repeating step

Q : (p, S), (d, S), (e, S)

Visited : S, p,d,e

s

p

d

e

s

p

d

e

3

repeating step

Q : (d, S), (e, S), (q, p, S)

Visited : S, p, d, e, q

s

p

d

e

q

s

p

d

e

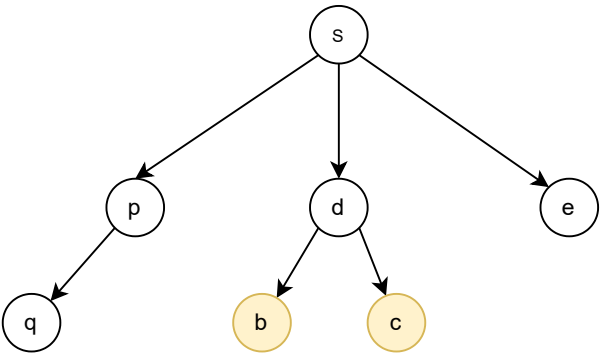
q

4 repeating step

s	p	d	e	q	b	c										
---	---	---	---	---	---	---	--	--	--	--	--	--	--	--	--	--

Q: (e, S), (q, p, S), (b, d, S), (c, d, S)

Visited : S, p, d, e, q, b, c

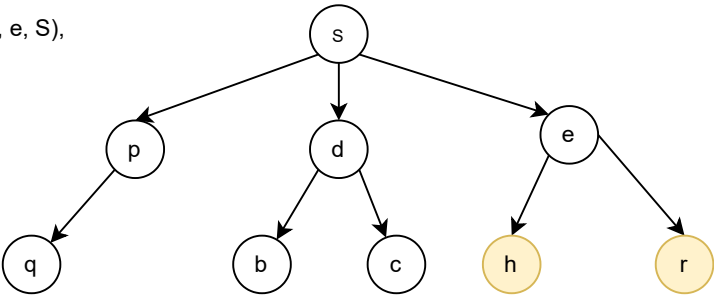


5 repeating step

s	p	d	e	q	b	c	h	r								
---	---	---	---	---	---	---	---	---	--	--	--	--	--	--	--	--

Q: (q, p, S), (b, d, S), (c, d, S), (h, e, S), (r, e, S),

Visited : S, p, d, e, q, b, c, h, r

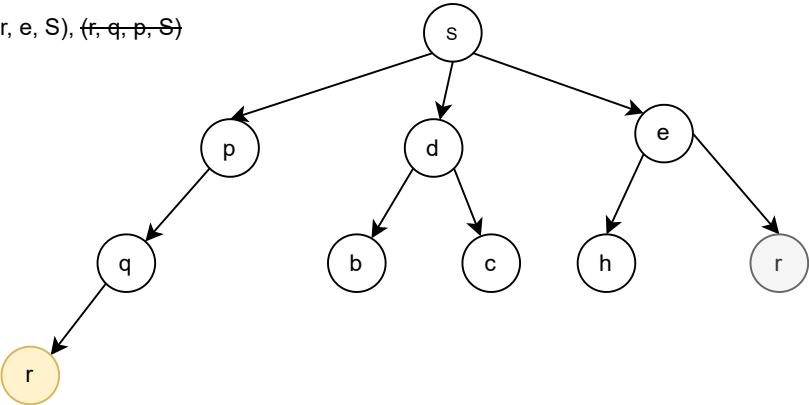


6 repeating step

s	p	d	e	q	b	c	h	r								
---	---	---	---	---	---	---	---	---	--	--	--	--	--	--	--	--

Q: (b, d, S), (c, d, S), (h, e, S), (r, e, S), ~~(r, q, p, S)~~

Visited : S, p, d, e, q, b, c, h, r

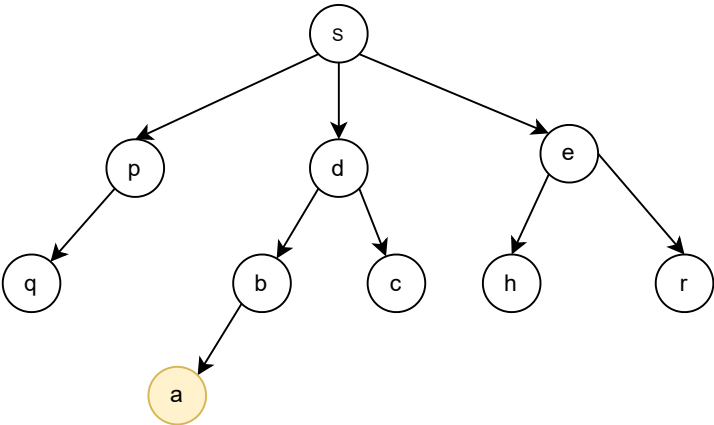


7 repeating step

s	p	d	e	q	b	c	h	r	a							
---	---	---	---	---	---	---	---	---	---	--	--	--	--	--	--	--

Q: (c, d, S), (h, e, S), (r, e, S), (a, b, d, S)

Visited : S, p, d, e, q, b, c, h, r, a

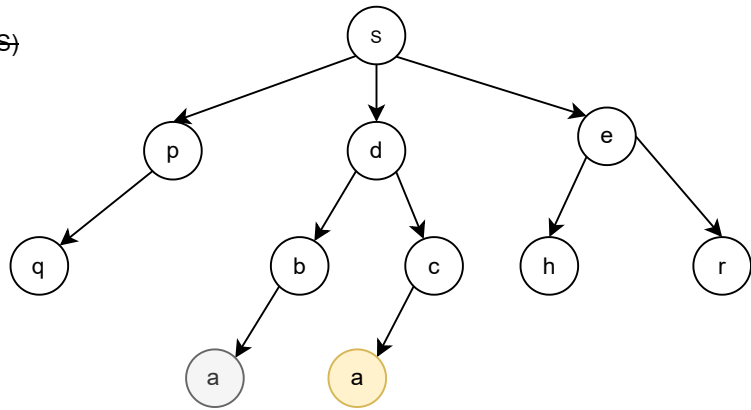


8 repeating step

START	p	d	e	q	b	c	h	r	a						
-------	---	---	---	---	---	---	---	---	---	--	--	--	--	--	--

Q: (h, e, S), (r, e, S), (a, b, d, S), (~~a, e, d, S~~)

Visited : S, p, d, e, q, b, c, h, r, a

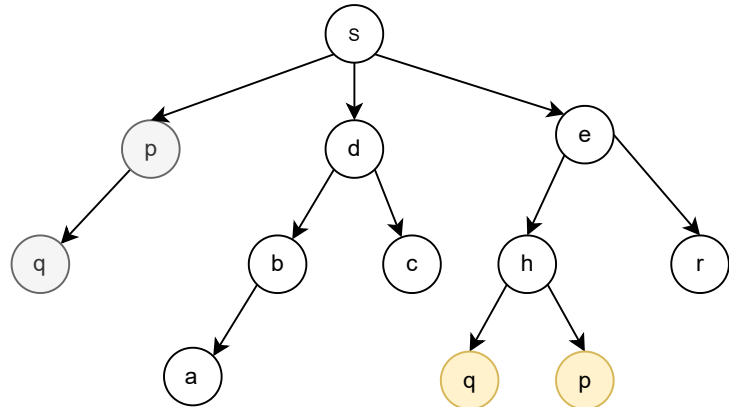


9 repeating step

s	p	d	e	q	b	c	h	r	a						
---	---	---	---	---	---	---	---	---	---	--	--	--	--	--	--

Q: (~~h, e, S~~), (r, e, S), (a, b, d, S)

Visited : S, p, d, e, q, b, c, h, r, a

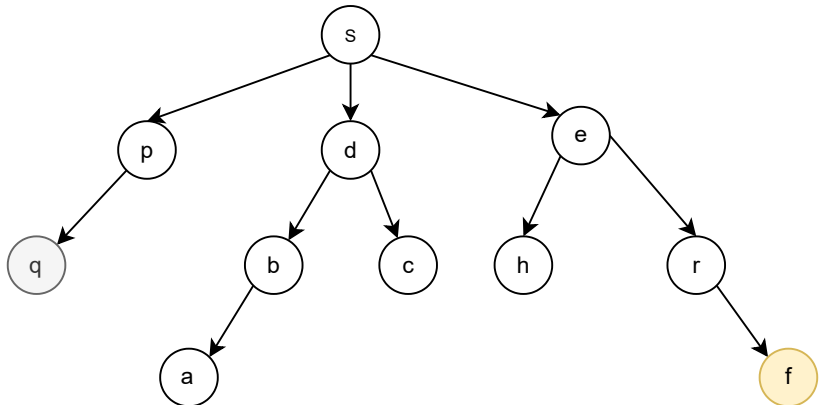


10 repeating step

s	p	d	e	q	b	c	h	r	a	f					
---	---	---	---	---	---	---	---	---	---	---	--	--	--	--	--

Q: (a, b, d, S), (f, r, e, S)

Visited : S, p, d, e, q, b, c, h, r, a, f

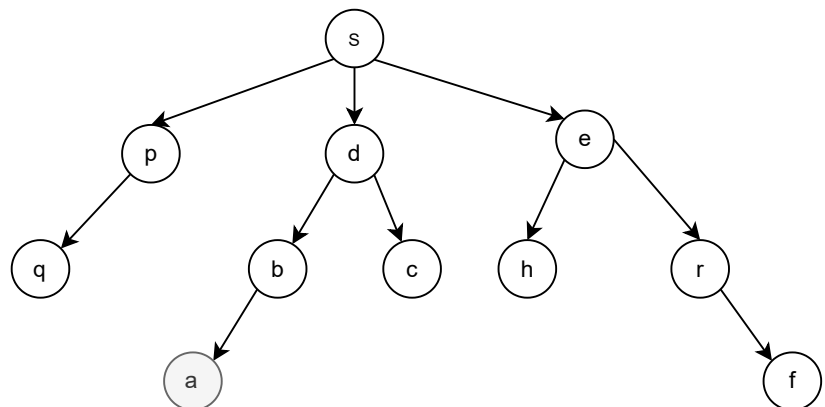


11 repeating step

s	p	d	e	q	b	c	h	r	a	f					
---	---	---	---	---	---	---	---	---	---	---	--	--	--	--	--

Q: (~~a, b, d, S~~), (f, r, e, S)

Visited : S, p, d, e, q, b, c, h, r, a, f

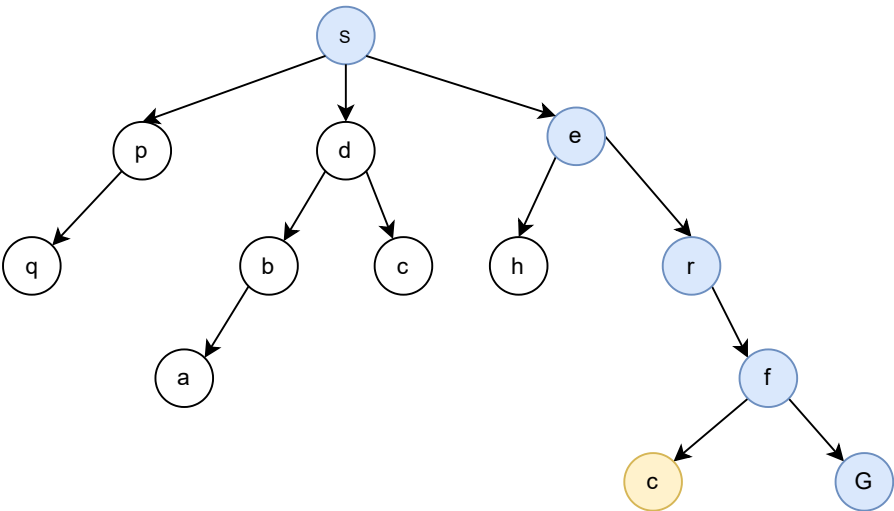


12 repeating step

s p d e q b c h r a f

Q: (G, f, r, e, S)

Visited : S, p, d, e, q, b, c, h, r, a, f



	Q	visited
1	(S)	S
2	(p, S), (d, S), (e, S)	S, p, d, e
3	(d, S), (e, S), (q, p, S)	S, p, d, e, q
4	(e, S), (q, p, S), (b, d, S), (c, d, S)	S, p, d, e, q, b, c
5	q, p, S), (b, d, S), (c, d, S), (h, e, S), (r, e, S),	S, p, d, e, q, b, c, h, r
6	(b, d, S), (c, d, S), (h, e, S), (r, e, S)	S, p, d, e, q, b, c, h, r
7	(c, d, S), (h, e, S), (r, e, S), (a, b, d, S)	S, p, d, e, q, b, c, h, r, a
8	(h, e, S), (r, e, S), (a, b, d, S)	S, p, d, e, q, b, c, h, r, a
9	(r, e, S), (a, b, d, S)	S, p, d, e, q, b, c, h, r, a
10	(a, b, d, S), (f, r, e, S)	S, p, d, e, q, b, c, h, r, a
11	(f, r, e, S)	S, p, d, e, q, b, c, h, r, a, f
12	(G, f, r, e, S)	S, p, d, e, q, b, c, h, r, a, f