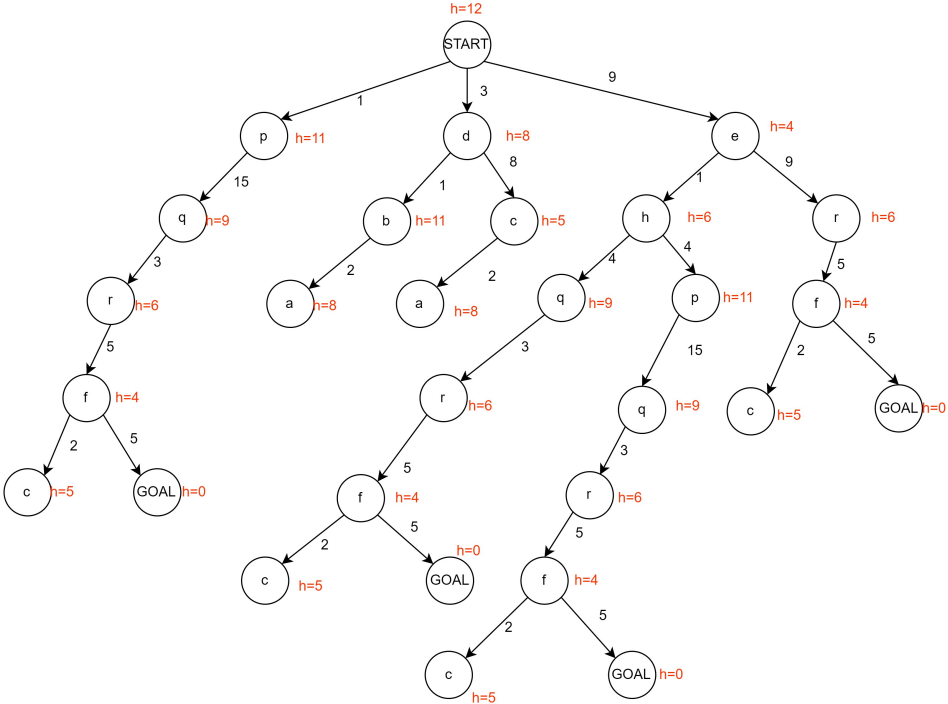


PR-2-Uniform cost Search

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S = START
G = GOAL



1

initial step

Visited : S

uniform cost search

Q : (0, S)

s

0

2

repeating step

Visited : S

uniform cost search

Q : (1, p, S), (3, d, S), (9, e, S)

s

1

3

9

p

d

e

3

repeating step

Visited : S, p

uniform cost search

Q : (3, d, S), (9, e, S), (16, q, p, S)

s

1

3

9

15

3

9

16

p

d

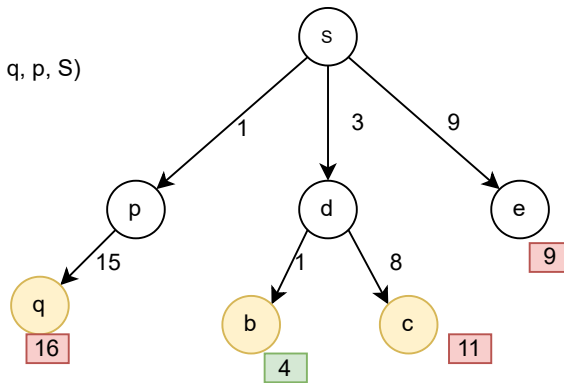
e

q

4 repeating step

Visited : S, p, d

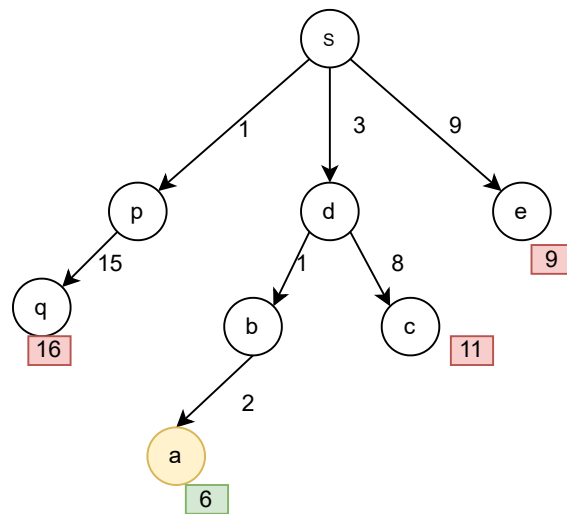
Q : (4, b, d, S), (9, e, S), (11, c, d, S), (16, q, p, S)



5 repeating step

Visited : S, p, d, b

Q : (6, a, b, d, S), (9, e, S), (11, c, d, S), (16, q, p, S)

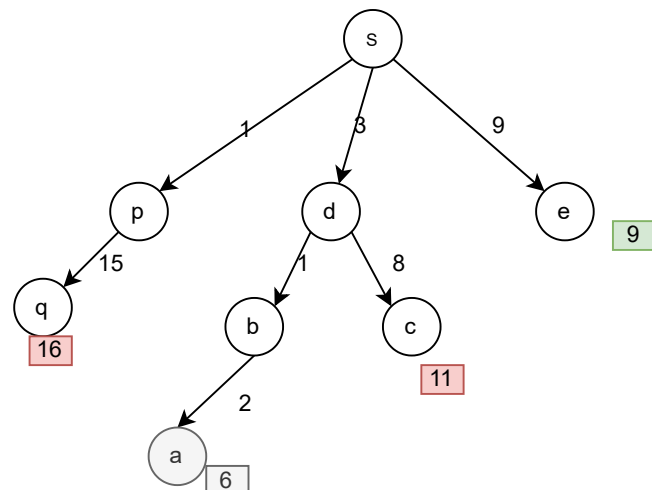


6 repeating step

Visited : S, p, d, b, a

Q : ~~(6, a, b, d, S)~~, (11, c, d, S), (9, e, S), (16, q, p, S)

Q : (9, e, S), (11, c, d, S), (16, q, p, S)

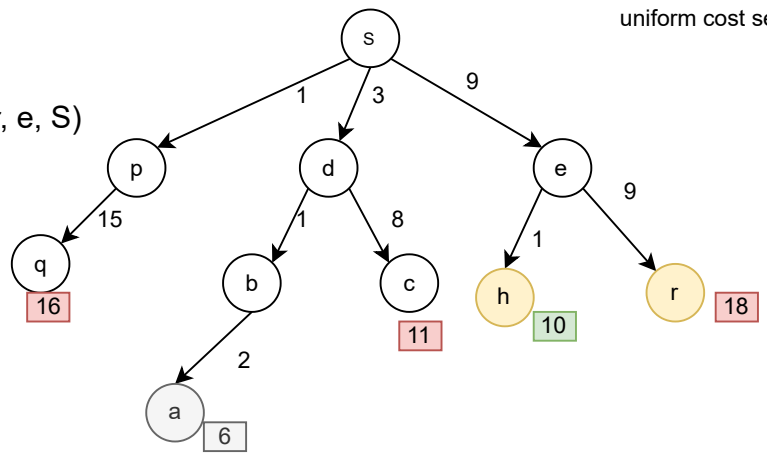


7 repeating step

Visited : S, p, d, b, a, e

uniform cost search

Q : (10, h, e, S), (11, c, d, S), (16, q, p, S), (18, r, e, S)

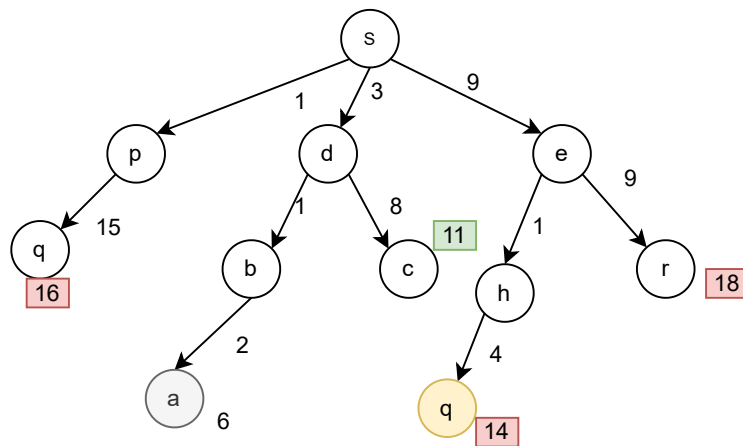


8 repeating step

Visited : S, p, d, b, a, e, h

uniform cost search

Q : (11, c, d, S), (14, q, h, e, S), (16, q, p, S), (18, r, e, S)

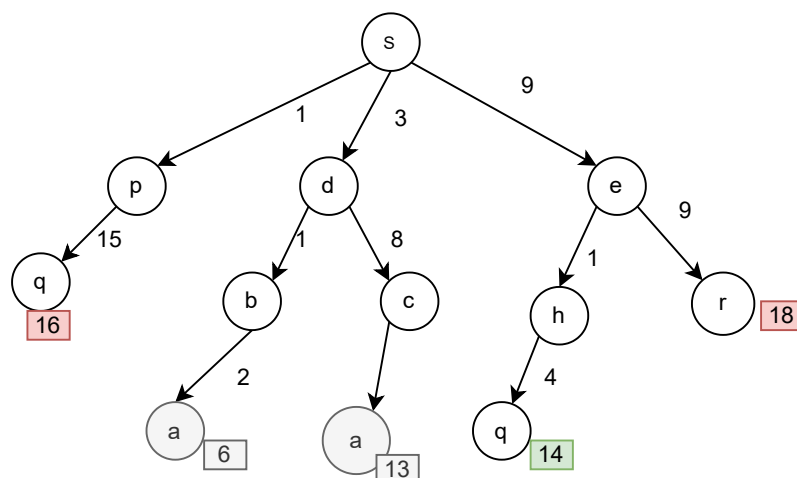


9 repeating step

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

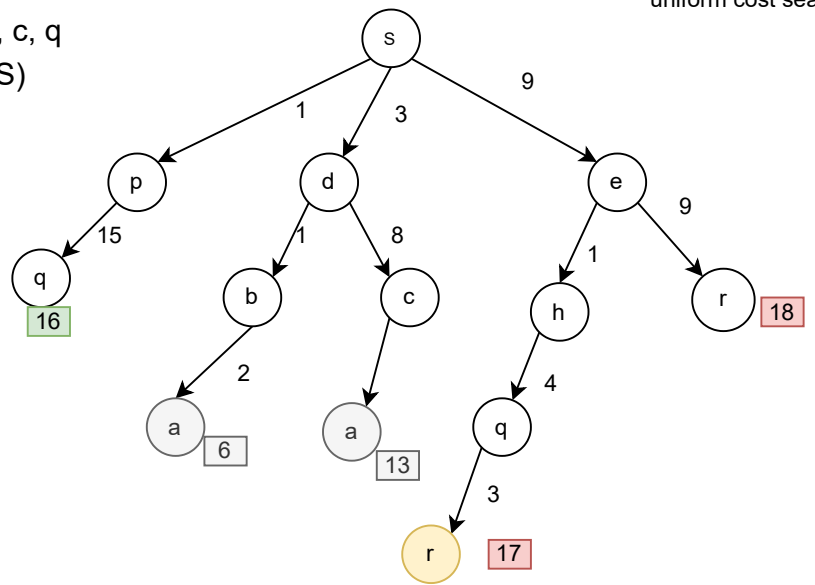
uniform cost search

Q : ~~(13, a, c, d, S)~~, (14, q, h, e, S), (16, q, p, S), (18, r, e, S)



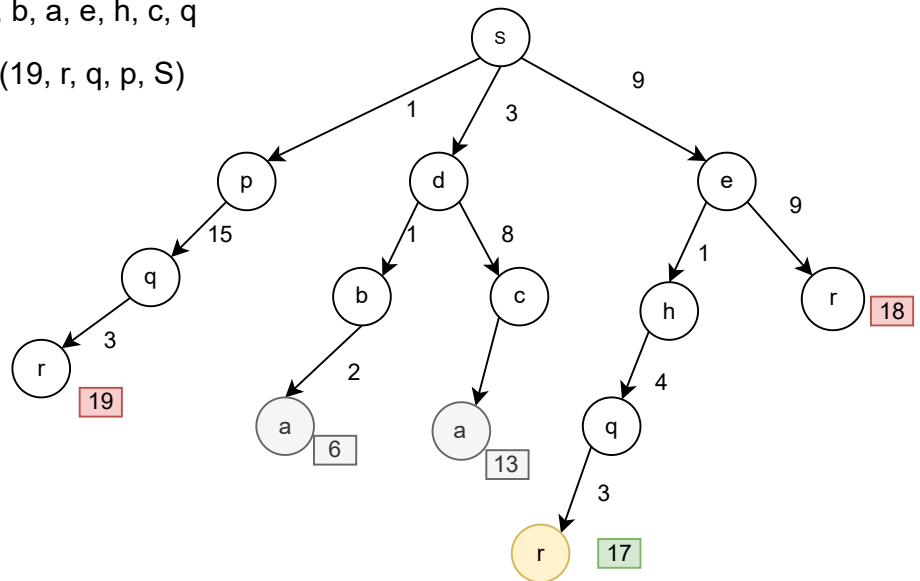
10 repeating step Visited : S, p, d, b, a, e, h, c, q

Q : (16, q, p, S), (17, r, q, h, e, S), (18, r, e, S)



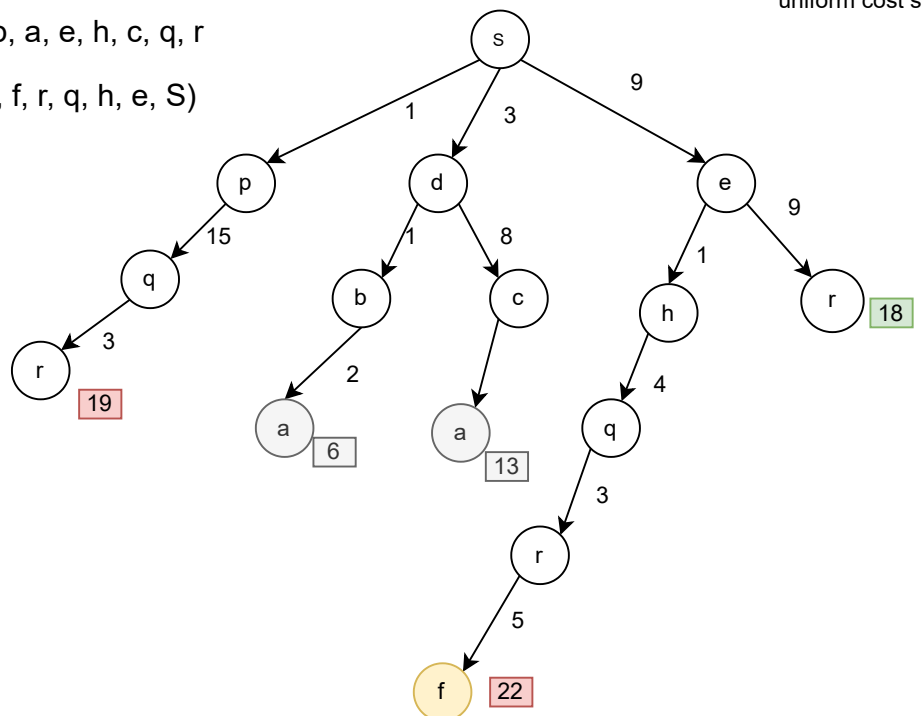
11 repeating step Visited : S, p, d, b, a, e, h, c, q

Q : (17, r, q, h, e, S), (18, r, e, S), (19, r, q, p, S)



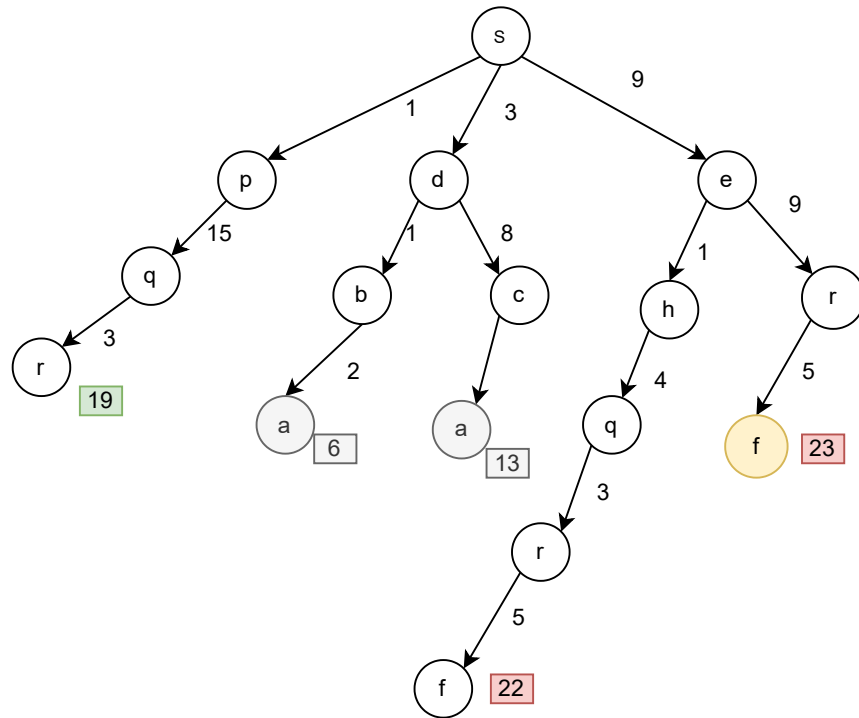
12 repeating step Visited : S, p, d, b, a, e, h, c, q, r

Q : (18, r, e, S), (19, r, q, p, S), (22, f, r, q, h, e, S)



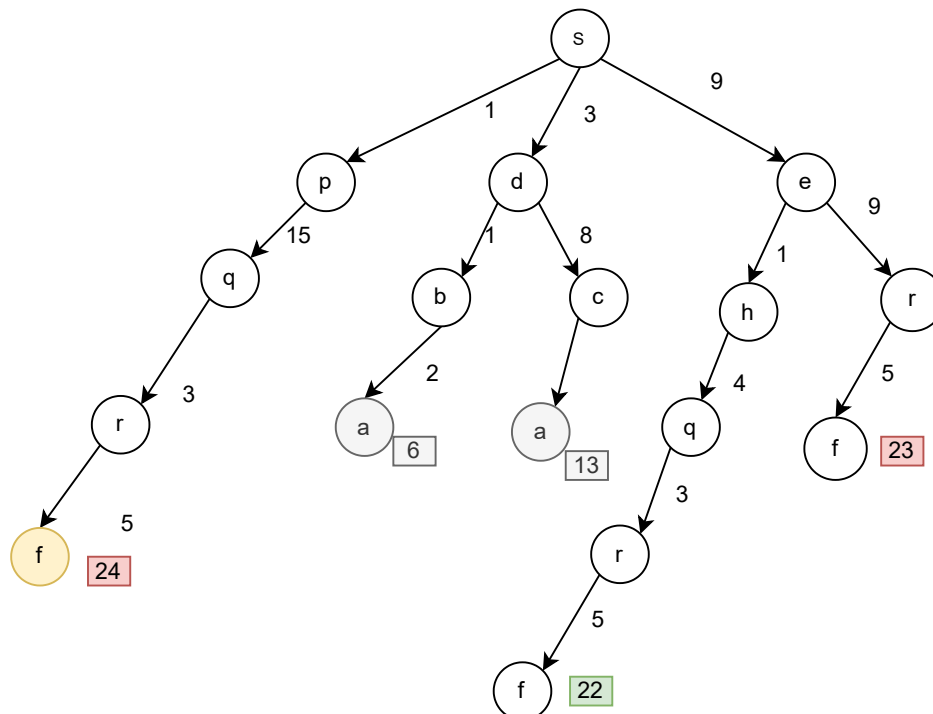
13 repeating step Visited : S, p, d, b, a, e, h, c, q, r

Q : (19, r, q, p, S), (22, f, r, q, h, e, S), (23, f, r, e, S)



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

Q : (22, f, r, q, h, e, S), (23, f, r, e, S), (24, f, r, q, p, S)

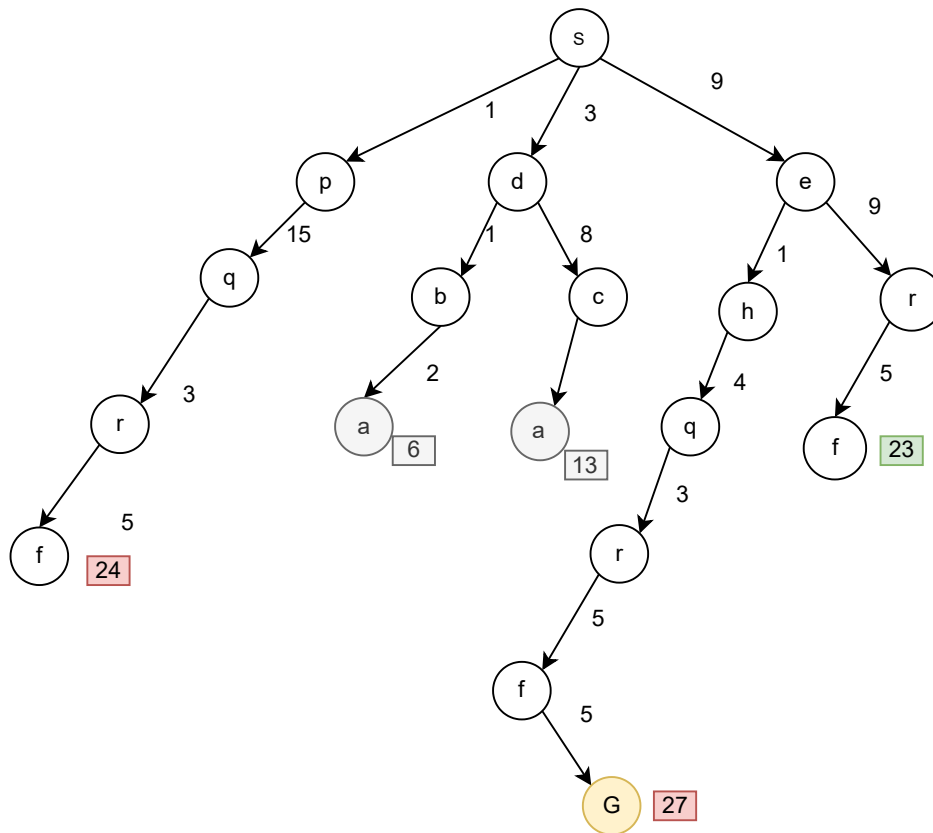


15

repeating step

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

Q : (23, f, r, e, S), (24, f, r, q, p, S), (27, G, f, r, q, h, e, S)

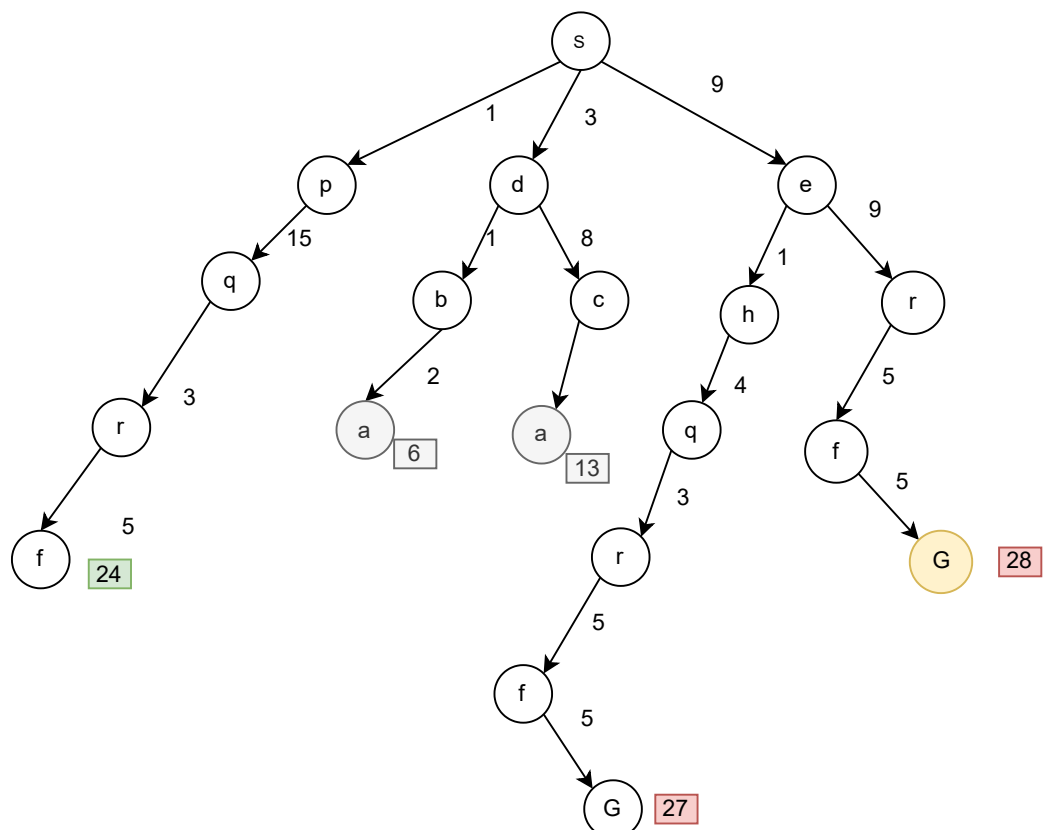


16

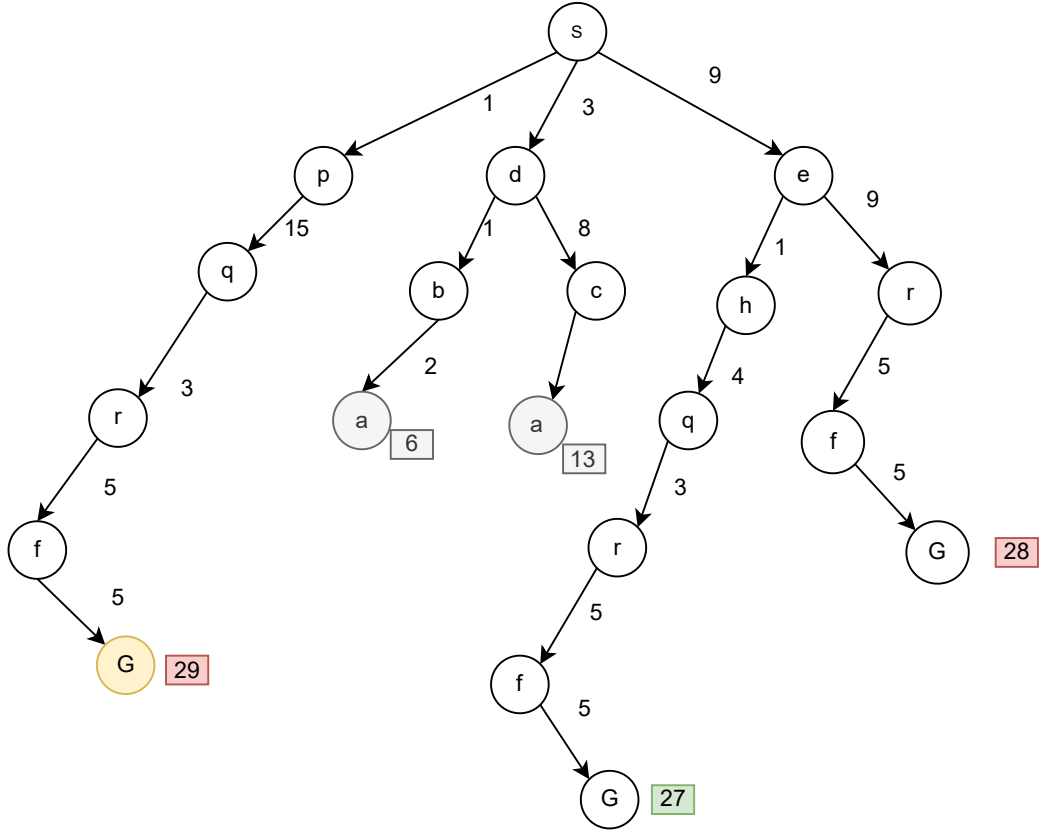
repeating step

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

Q : (24, f, r, q, p, S), (27, G, f, r, q, h, e, S), (28, G, f, r, e, S)

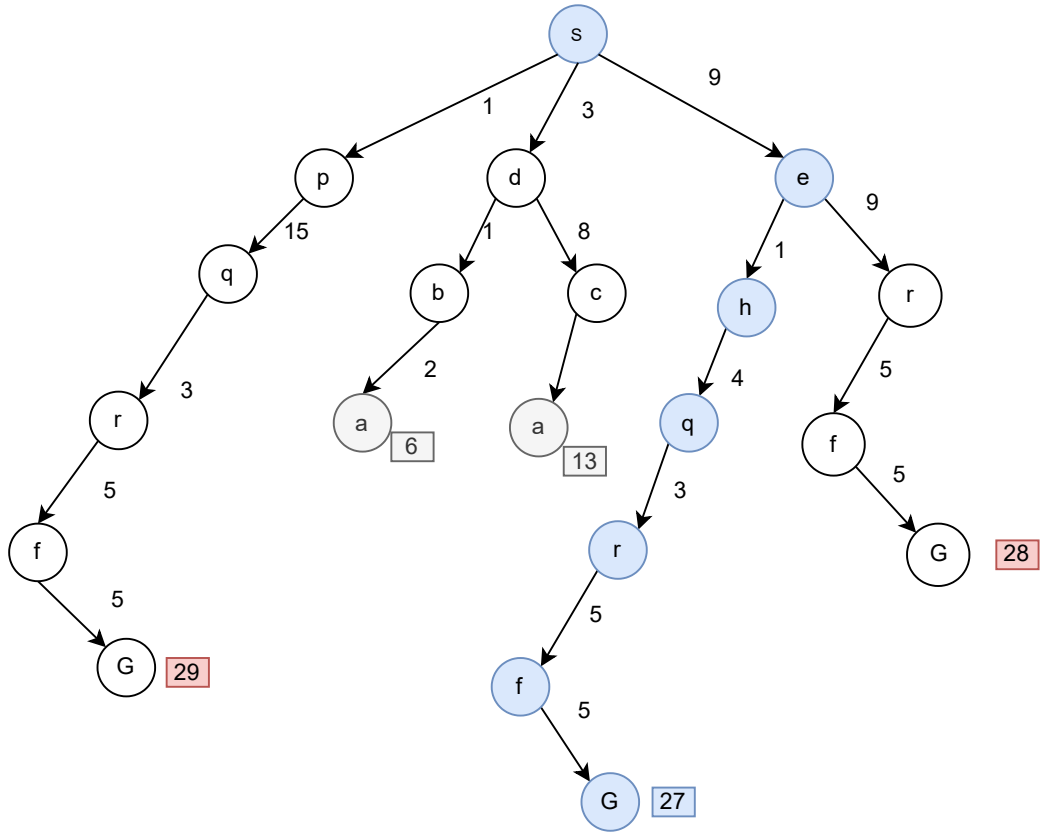


Q : (27, G, f, r, q, h, e, S), (28, G, f, r, e, S), (29, G, f, r, q, p, S)



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

(27, G, f, r, q, h, e, S)



	Q	Expanded
1	(0, S)	S
2	(1, p, S), (3, d, S), (9, e, S)	S
3	(3, d, S), (9, e, S), (16, q, p, S)	S, p
4	(4, b, d, S), (9, e, S), (11, c, d, S), (16, q, p, S)	S, p, d
5	(6, a, b, d, S), (9, e, S), (11, c, d, S), (16, q, p, S)	S, p, d, b
6	(9, e, S), (11, c, d, S), (16, q, p, S)	S, p, d, b, a
7	(10, h, e, S), (11, c, d, S), (16, q, p, S), (18, r, e, S)	S, p, d, b, a, e
8	(11, c, d, S), (14, q, h, e, S), (16, q, p, S), (18, r, e, S)	S, p, d, b, a, e, h
9	(14, q, h, e, S), (16, q, p, S), (18, r, e, S)	S, p, d, b, a, e, h, c
10	(16, q, p, S), (17, r, q, h, e, S), (18, r, e, S)	S, p, d, b, a, e, h, c, q
11	(17, r, q, h, e, S), (18, r, e, S), (19, r, q, p, S)	S, p, d, b, a, e, h, c, q
12	(18, r, e, S), (19, r, q, p, S), (22, f, r, q, h, e, S)	S, p, d, b, a, e, h, c, q, r
13	(19, r, q, p, S), (22, f, r, q, h, e, S), (23, f, r, e, S)	S, p, d, b, a, e, h, c, q, r
14	(22, f, r, q, h, e, S), (23, f, r, e, S), (24, f, r, q, p, S)	S, p, d, b, a, e, h, c, q, r
15	(23, f, r, e, S), (24, f, r, q, p, S), (27, G, f, r, q, h, e, S)	S, p, d, b, a, e, h, c, q, r, f
16	(24, f, r, q, p, S), (27, G, f, r, q, h, e, S), (28, G, f, r, e, S)	S, p, d, b, a, e, h, c, q, r, f
17	(27, G, f, r, q, h, e, S), (28, G, f, r, e, S), (29, G, f, r, q, p, S)	S, p, d, b, a, e, h, c, q, r, f
	(27, GOAL, f, r, q, h, e, S)	S, p, d, b, a, e, h, c, q, r, f