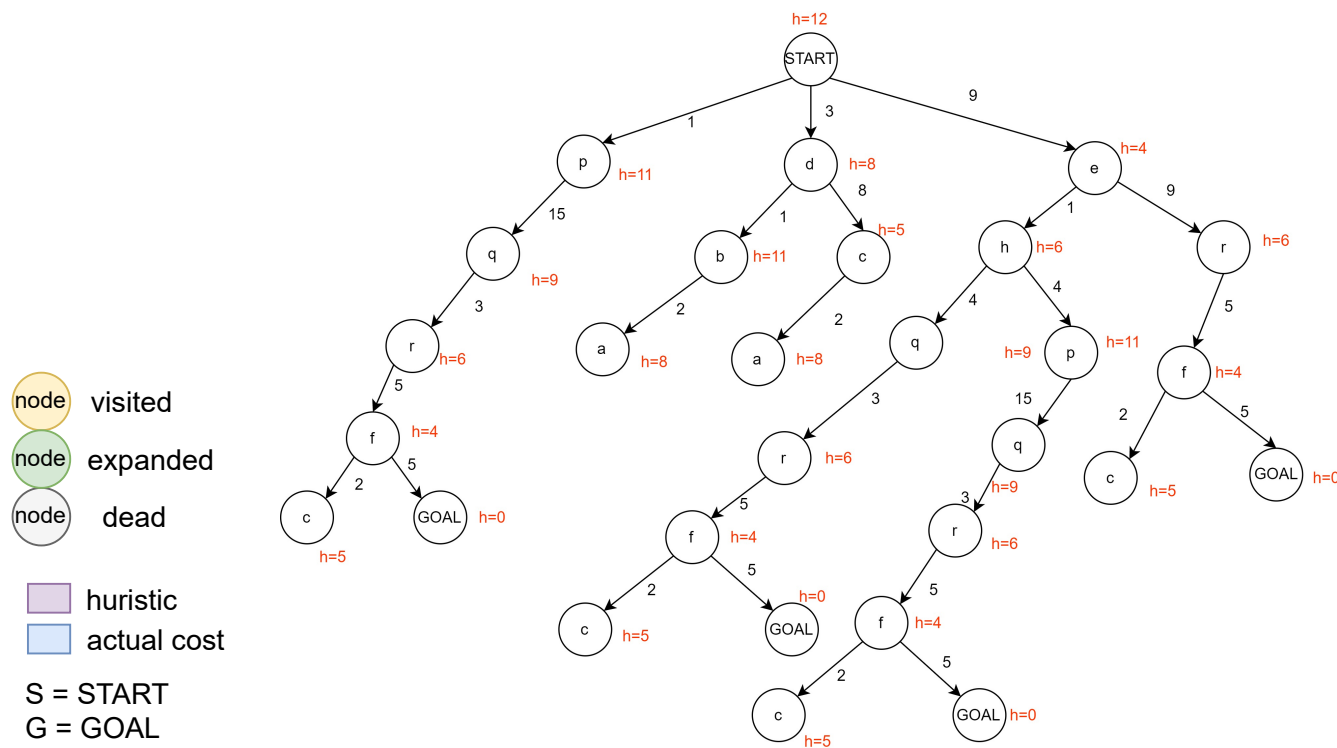


# PR-2-A-Star-Search

63102105112 Akkarapon Phikulsri



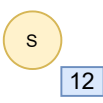
1

initial step

Visited :

A Star Search

Q : (12, S)



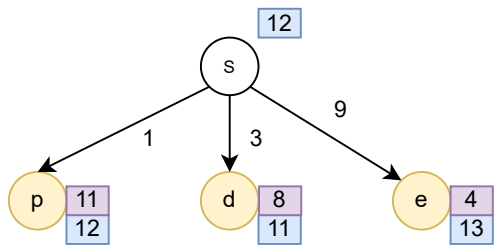
2

repeating step

Visited : S

A Star Search

Q : (11, d, S), (12, p, S), (13, e, S)



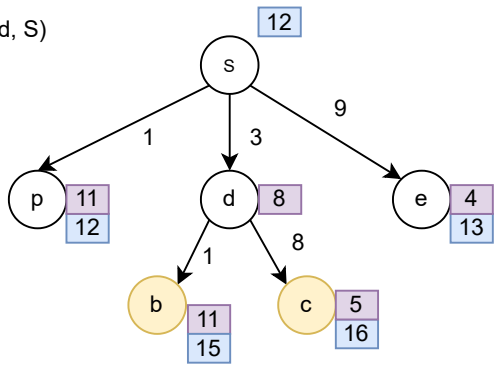
3

repeating step

Visited : S, d

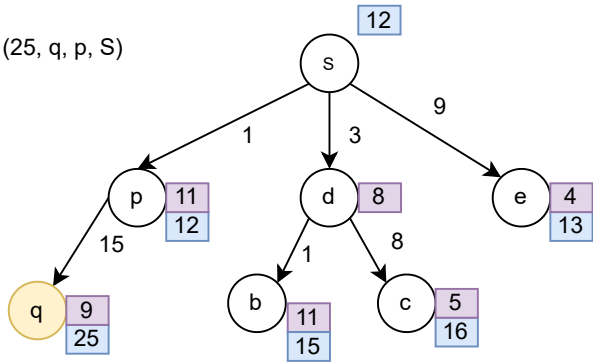
A Star Search

Q : (12, p, S), (13, e, S), (15, b, d, S), (16, c, d, S)



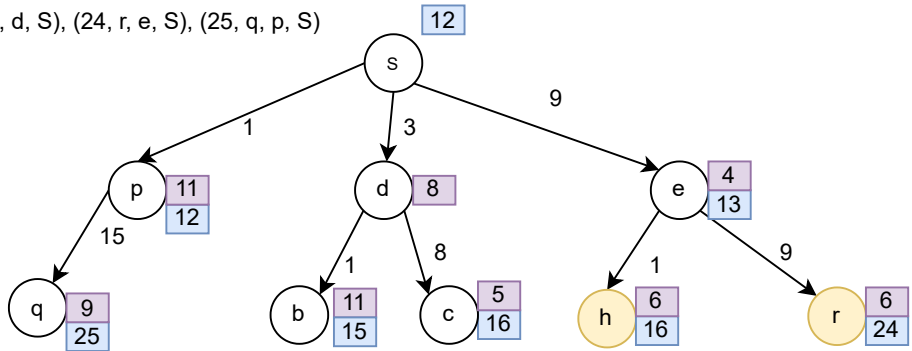
4 repeating step Visited : S, d, p

Q : (13, e, S), (15, b, d, S), (16, c, d, S), (25, q, p, S)



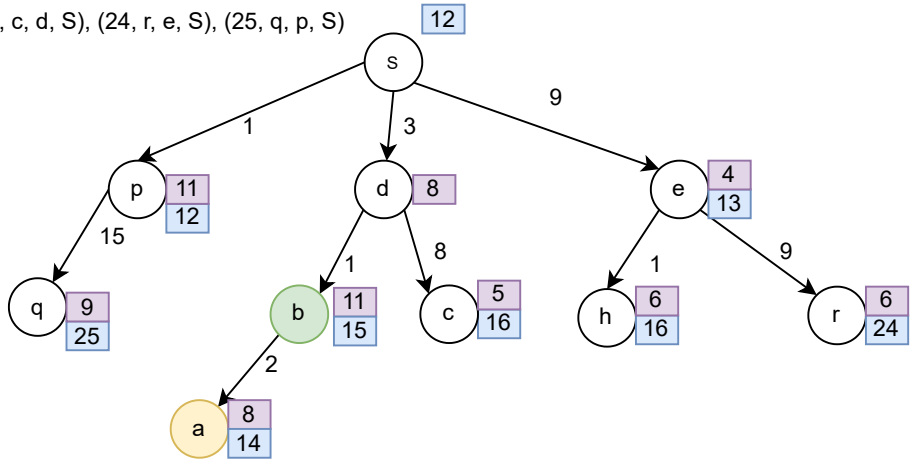
5 repeating step Visited : S, d, p, e

Q : (15, b, d, S), (16, h, e, S), (16, c, d, S), (24, r, e, S), (25, q, p, S)



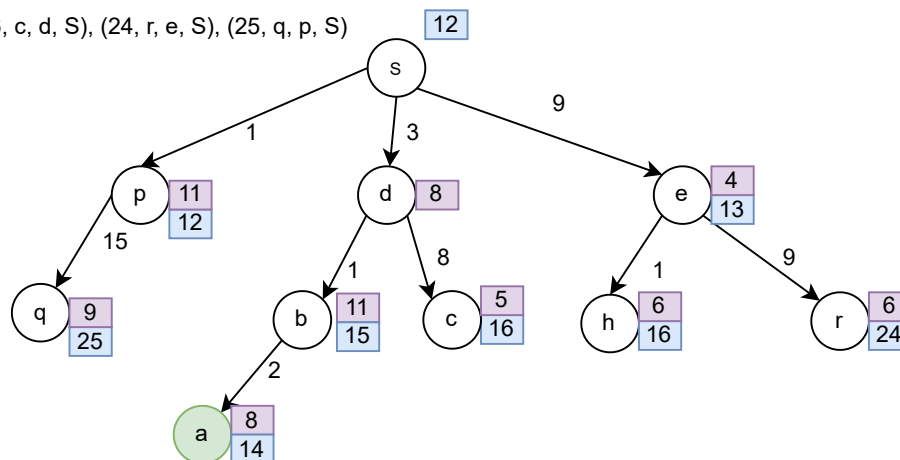
6 repeating step Visited : S, d, p, e, b

Q : (14, a, b, d, S), (16, h, e, S), (16, c, d, S), (24, r, e, S), (25, q, p, S)



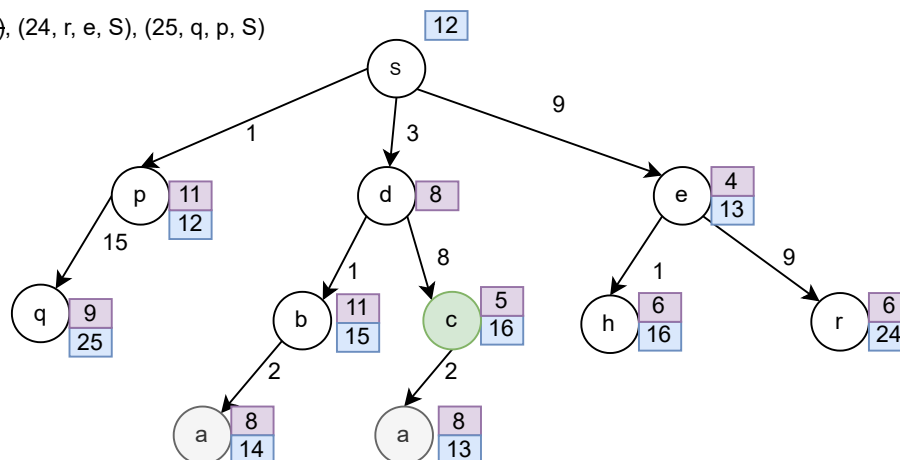
7 repeating step

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

Q : ~~(14, a, b, d, S)~~, (16, h, e, S), (16, c, d, S), (24, r, e, S), (25, q, p, S)

8 repeating step

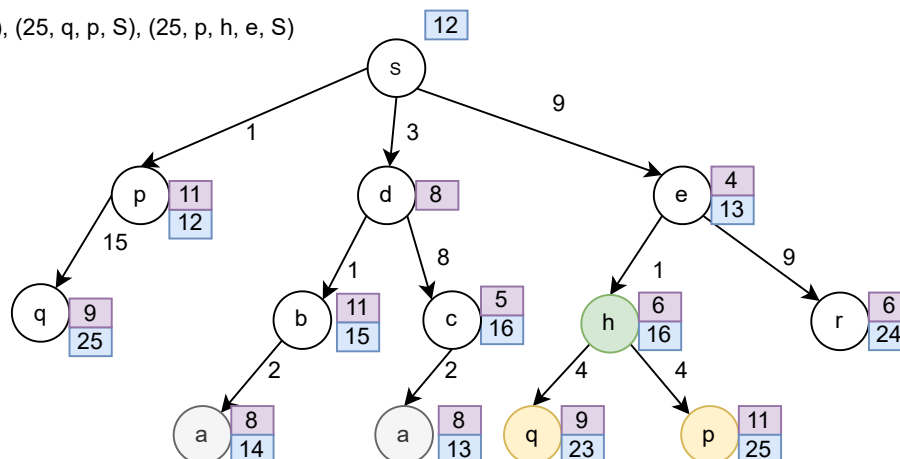
Visited : S, d, p, e, b, a, c

Q : (16, h, e, S), ~~(16, c, d, S)~~, (24, r, e, S), (25, q, p, S)

9 repeating step

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

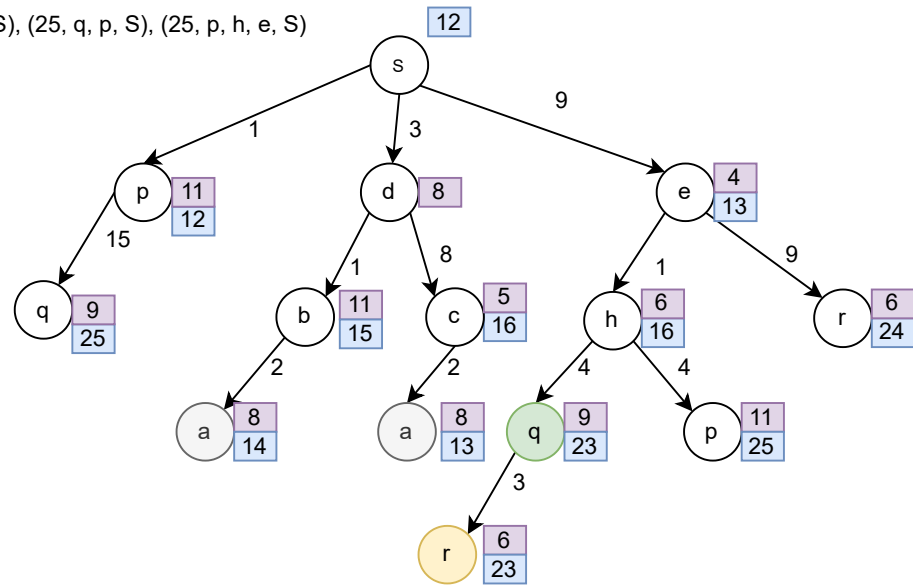
Q : (23, q, h, e, S), (24, r, e, S), (25, q, p, S), (25, p, h, e, S)



10 repeating step

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

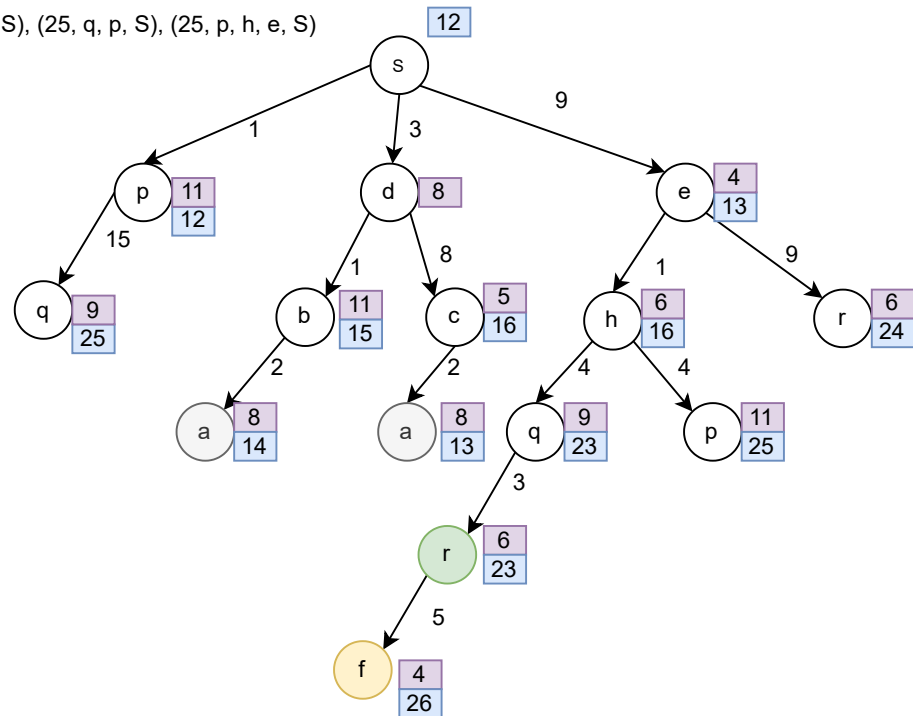
Q : (23, r, q, h, e, S), (24, r, e, S), (25, q, p, S), (25, p, h, e, S)



11 repeating step

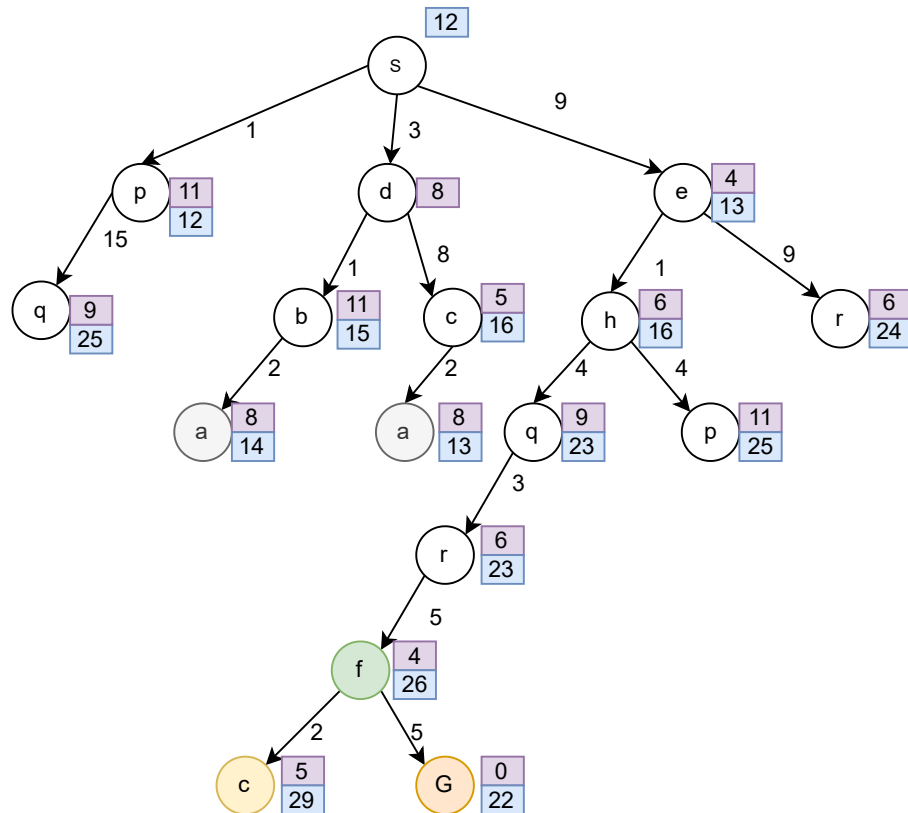
Visited : S, d, p, e, b, a, c, h, q, r

Q : (26, f, r, q, h, e, S), (24, r, e, S), (25, q, p, S), (25, p, h, e, S)



12 repeating step

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

Q : (24, r, e, S), (25, q, p, S), (25, p, h, e, S), (**22, G, f, r, q, h, e, S**), (29, c, f, r, q, h, e, S),

	Q	expanded
1	(12, S)	
2	(11, d, S), (12, p, S), (13, e, S)	S
3	(12, p, S), (13, e, S), (15, b, d, S), (16, c, d, S)	S, d
4	(13, e, S), (15, b, d, S), (16, c, d, S), (25, q, p, S)	S, d, p
5	(15, b, d, S), (16, h, e, S), (16, c, d, S), (24, r, e, S), (25, q, p, S)	S, d, p, e
6	(14, a, b, d, S), (16, h, e, S), (16, c, d, S), (24, r, e, S), (25, q, p, S)	S, d, p, e, b
7	(16, h, e, S), (16, c, d, S), (24, r, e, S), (25, q, p, S)	S, d, p, e, b, a
8	(16, h, e, S), (24, r, e, S), (25, q, p, S)	S, d, p, e, b, a, c
9	(23, q, h, e, S), (24, r, e, S), (25, q, p, S), (25, p, h, e, S)	S, d, p, e, b, a, c, h
10	(23, r, q, h, e, S), (24, r, e, S), (25, q, p, S), (25, p, h, e, S)	S, d, p, e, b, a, c, h, q
11	(24, r, e, S), (25, q, p, S), (25, p, h, e, S), (26, f, r, q, h, e, S),	S, d, p, e, b, a, c, h, q, r
12	(24, r, e, S), (25, q, p, S), (25, p, h, e, S), ( <b>22, G, f, r, q, h, e, S</b> ), (29, c, f, r, q, h, e, S),	S, d, p, e, b, a, c, h, q, r
	(22, G, f, r, q, h, e, S)	