



Q A

(1) A: (null, 0, 0)

B: (A, 1, 1)

C: (B, 2, 1) X

D: (A, 3, 3)

E: (B, 2, 2)

G: (D, 4, 3)

H: (D, 5, 5)

F: (H, 6, 6)

I: (H, 7, 7)

J: (F, 8, 8)

(2)	Parents node	Child node
A	—	{B, D}
B	{A}	{C, E}
C	{B}	—
D	{A, E}	{G, H}
E	{	

Q2

(1) ~~AB 8~~ ~~FD 7~~ ~~BA 8~~  
~~AD 2~~ ~~FH 5~~ ~~BE 4~~  
~~DE 6~~ ~~HC 4~~ ~~BC 2~~  
~~DF 7~~ ~~HH 6~~ ~~BG 1~~  
~~EB 4~~ ~~CB 2~~ ~~GI 9~~  
~~EC 12~~ ~~GG 3~~  
~~EF 3~~ ~~GI 10~~

(2)

