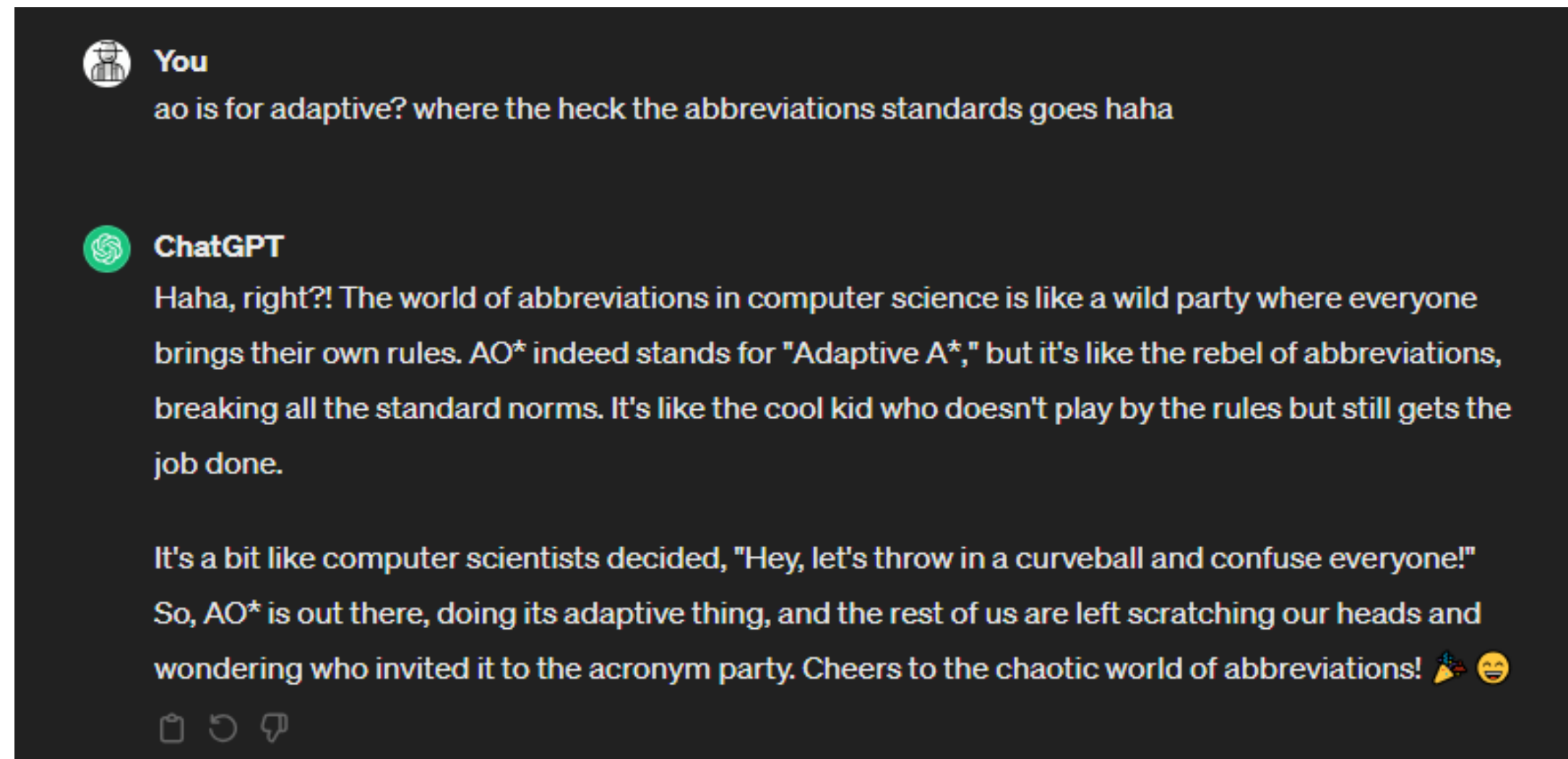
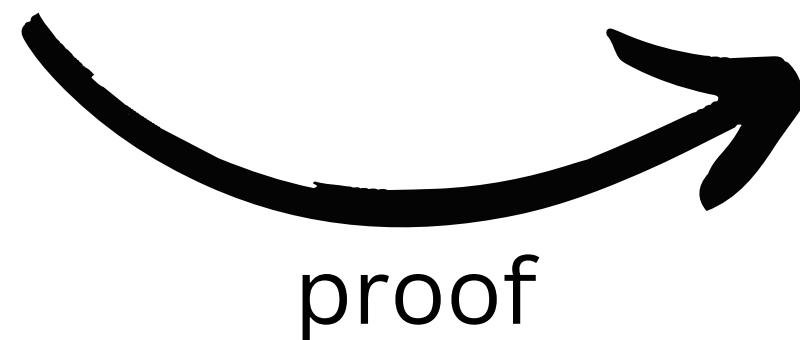


# AO\* ALGORITHM

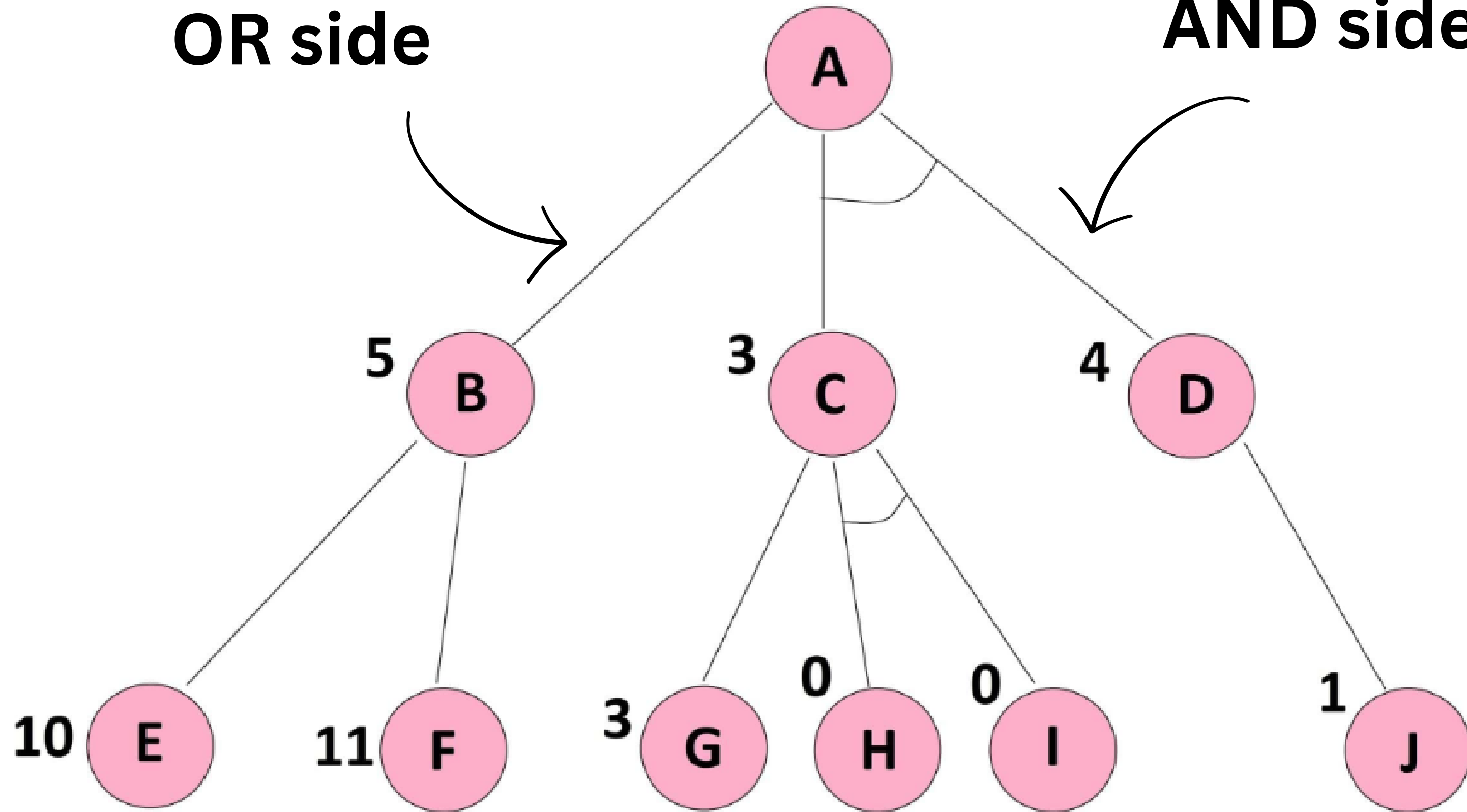
AO\* abbreviation is Adaptive A\*

**haha i know,  
see this i asked god  
about this**



**OR side**

**AND side**

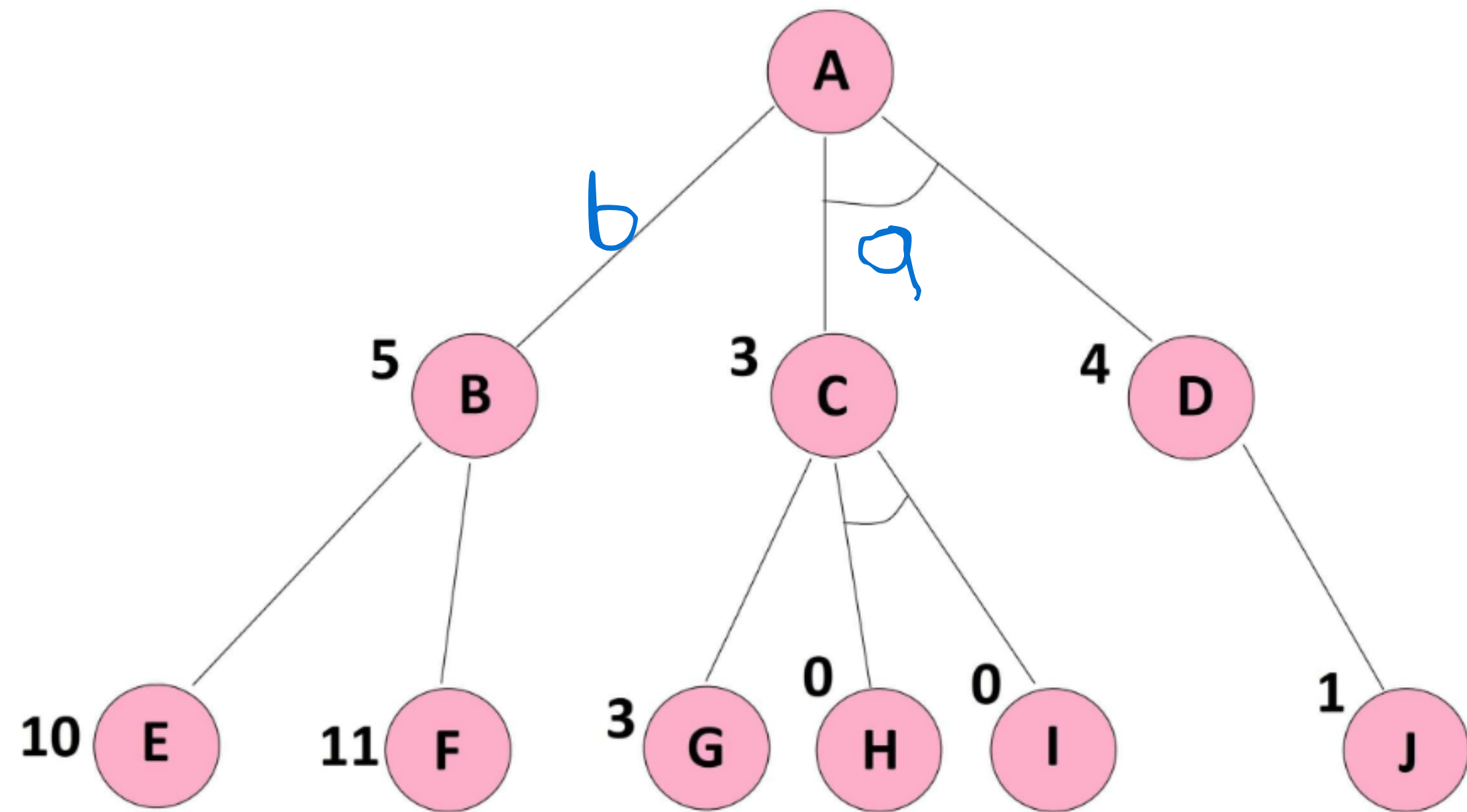


(the weights of the edges are 1)

$$f(n) = g(n) + h(n)$$

$$f(A-B) = 1 + 5 = 6$$

$$f(A-C-D) = 1 + 3 + 1 + 4 = 9$$



(the weights of the edges are 1)

$$f(n) = g(n) + h(n)$$

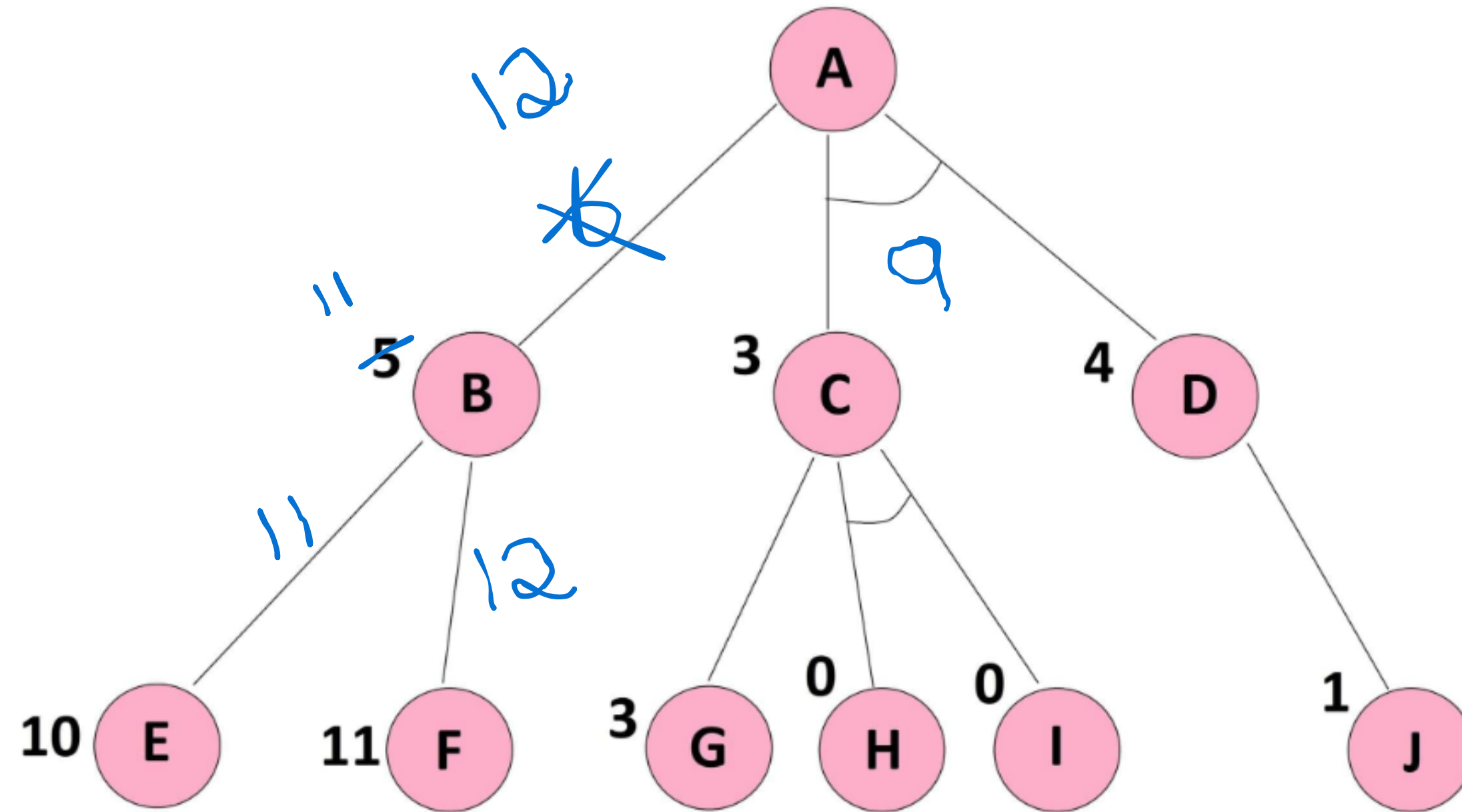
$$f(A-B) = 1 + 5 = 6$$

$$f(A-C-D) = 1 + 3 + 1 + 4 = 9$$

$$F(B-E) = 1 + 10 = 11$$

$$F(B-F) = 1 + 11 = 12$$

$$F(A-B) = 12$$



(the weights of the edges are 1)

$$f(n) = g(n) + h(n)$$

$$f(A-B) = 1 + 5 = 6$$

$$f(A-C-D) = 1 + 3 + 1 + 4 = 9$$

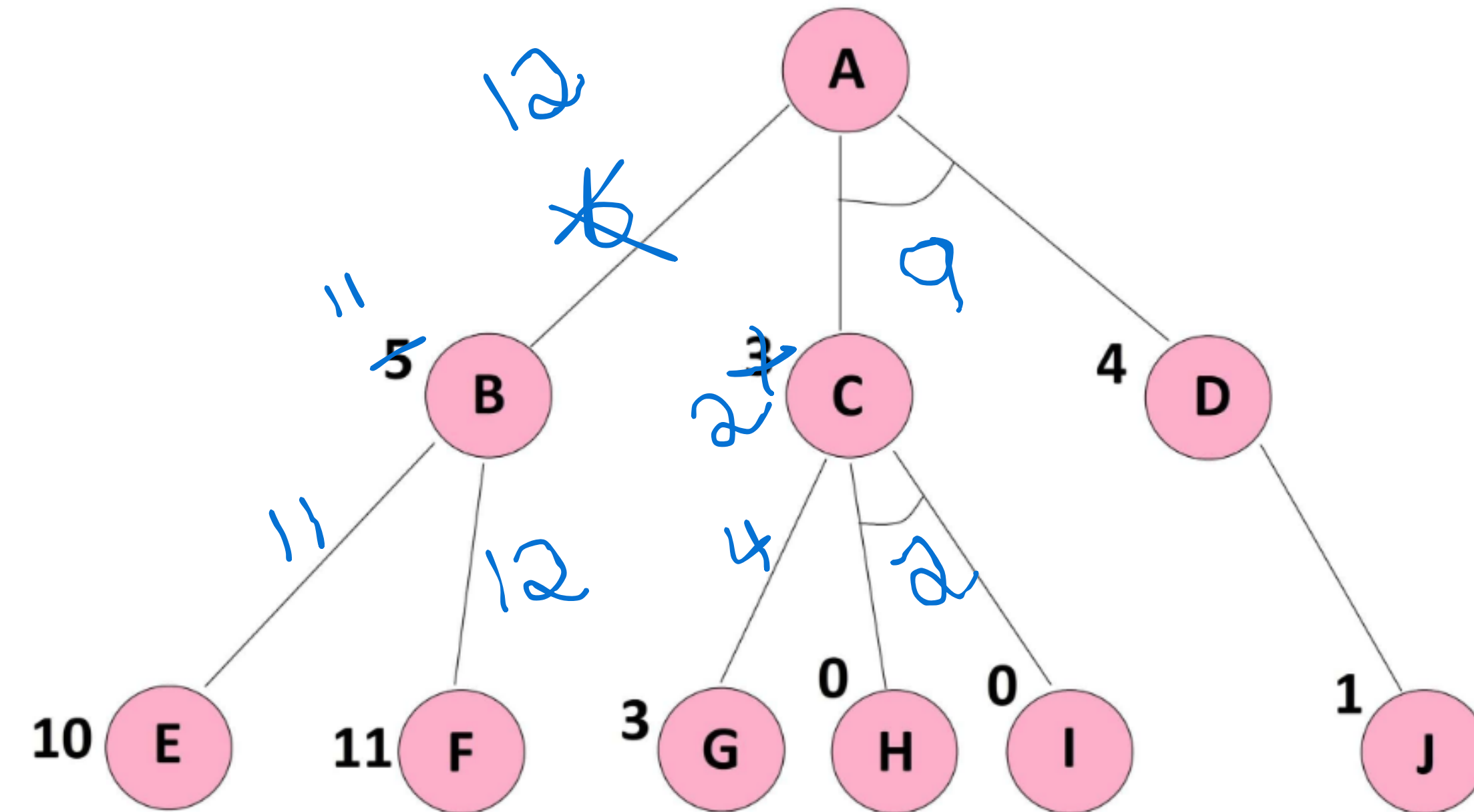
$$F(B-E) = 1 + 10 = 11$$

$$F(B-F) = 1 + 11 = 12$$

$$F(A-B) = 12$$

$$F(C-G) = 1 + 3 = 4$$

$$F(C-H-I) = 1 + 0 + 1 + 0 = 2$$



(the weights of the edges are 1)

$$f(n) = g(n) + h(n)$$

$$f(A-B) = 1 + 5 = 6$$

$$f(A-C-D) = 1 + 3 + 1 + 4 = 9$$

$$F(B-E) = 1 + 10 = 11$$

$$F(B-F) = 1 + 11 = 12$$

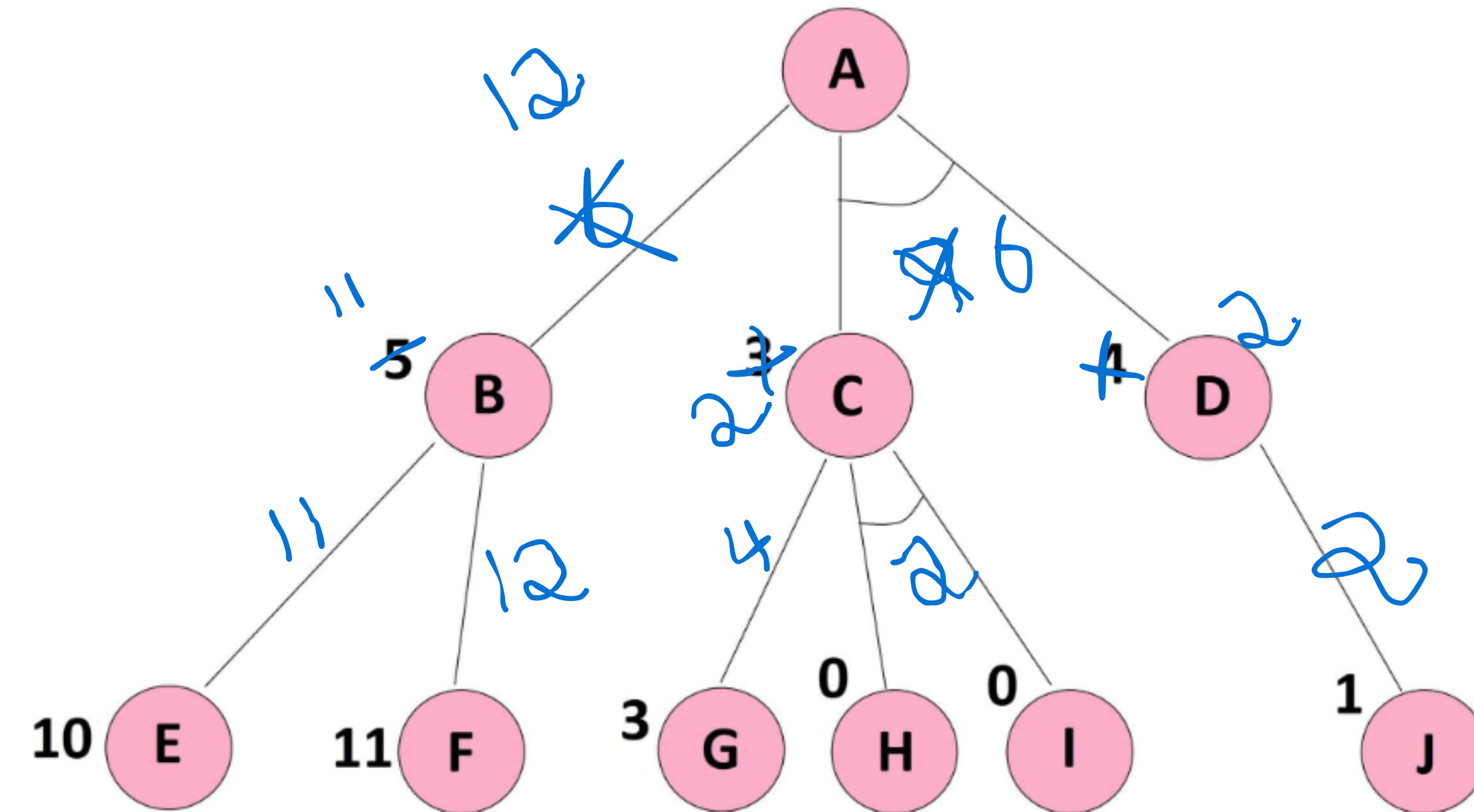
$$F(A-B) = 12$$

$$F(C-G) = 1 + 3 = 4$$

$$F(C-H-I) = 1 + 0 + 1 + 0 = 2$$

$$F(D-J) = 1 + 1 = 2$$

$$F(A-C-D) = 1 + 2 + 1 + 2 = 6$$



(the weights of the edges are 1)

$$f(n) = g(n) + h(n)$$

$$f(A-B) = 1 + 5 = 6$$

$$f(A-C-D) = 1 + 3 + 1 + 4 = 9$$

$$F(B-E) = 1 + 10 = 11$$

$$F(B-F) = 1 + 11 = 12$$

$$F(A-B) = 12$$

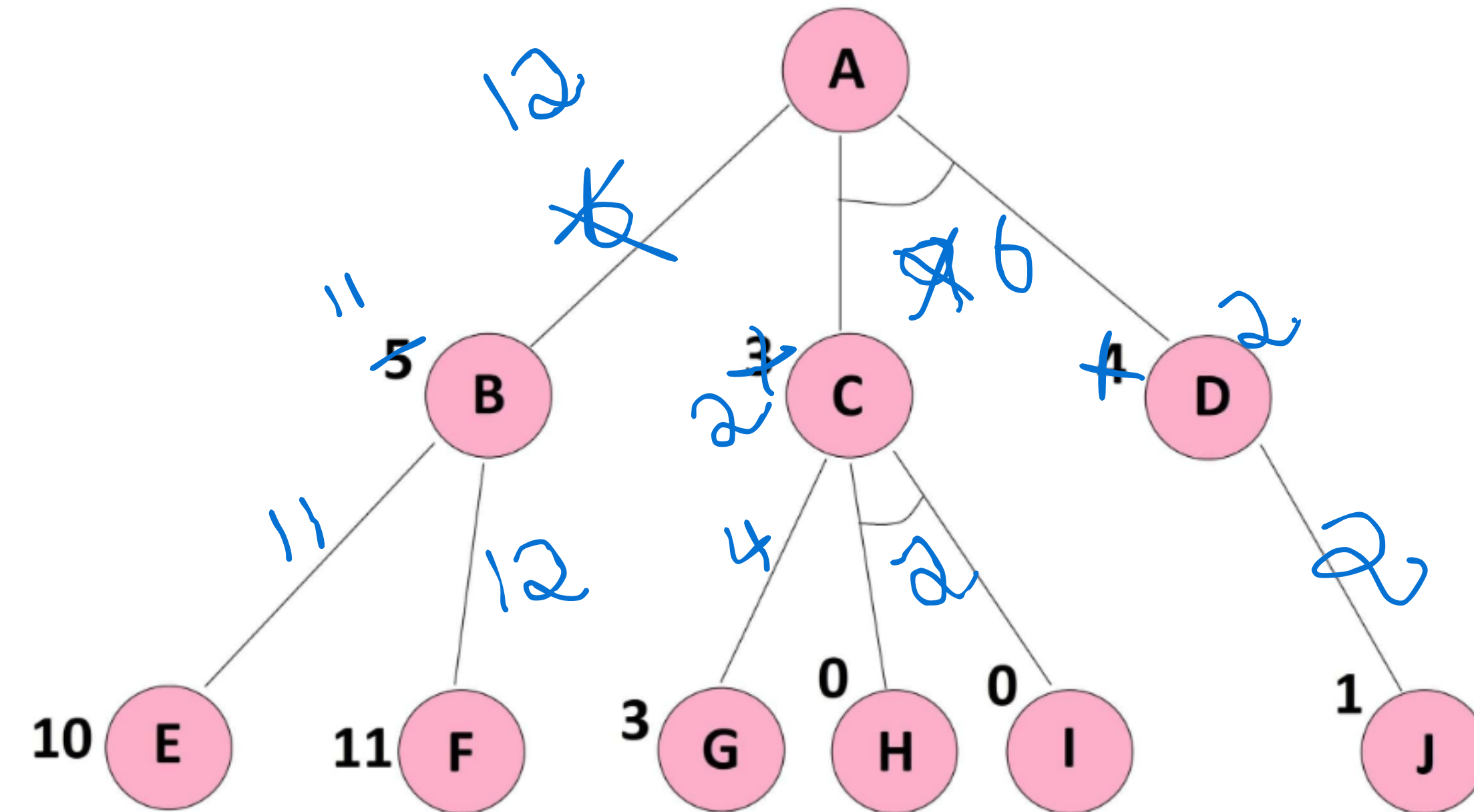
$$F(C-G) = 1 + 3 = 4$$

$$F(C-H-I) = 1 + 0 + 1 + 0 = 2$$

$$F(D-J) = 1 + 1 = 2$$

$$F(A-C-D) = 1 + 2 + 1 + 2 = 6$$

its lesser than OR side so the goal node is in AND side.



(the weights of the edges are 1)