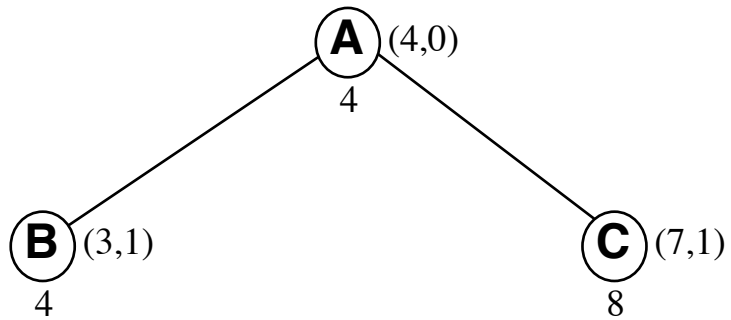


# Example of $A^*$

$$\begin{array}{c} \textcircled{\mathbf{A}} (4,0) \\ 4 \end{array}$$

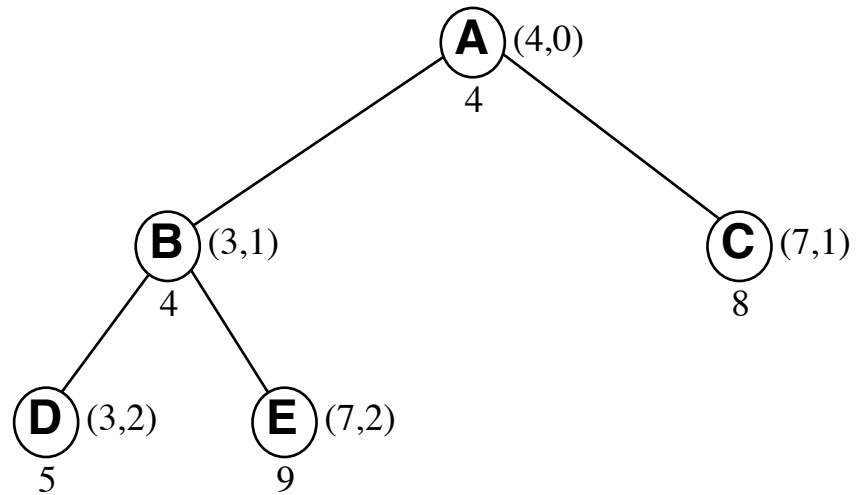
OPEN: ( $A_4$ )  
CLOSED: ()

# Example of $A^*$



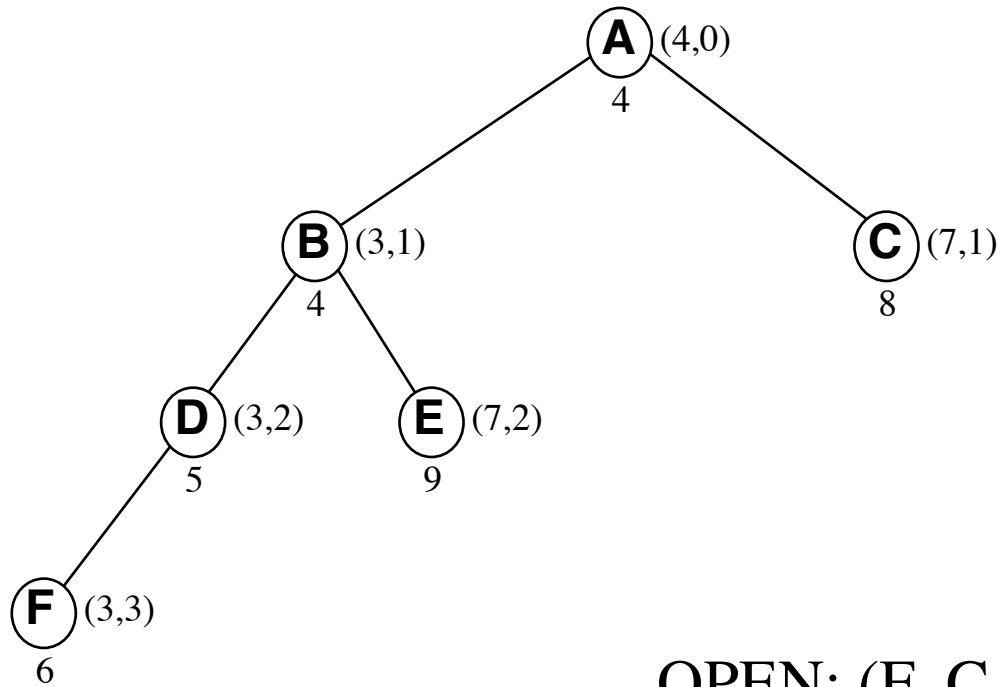
OPEN: ( $B_4$   $C_8$ )  
CLOSED: (A)

# Example of A\*



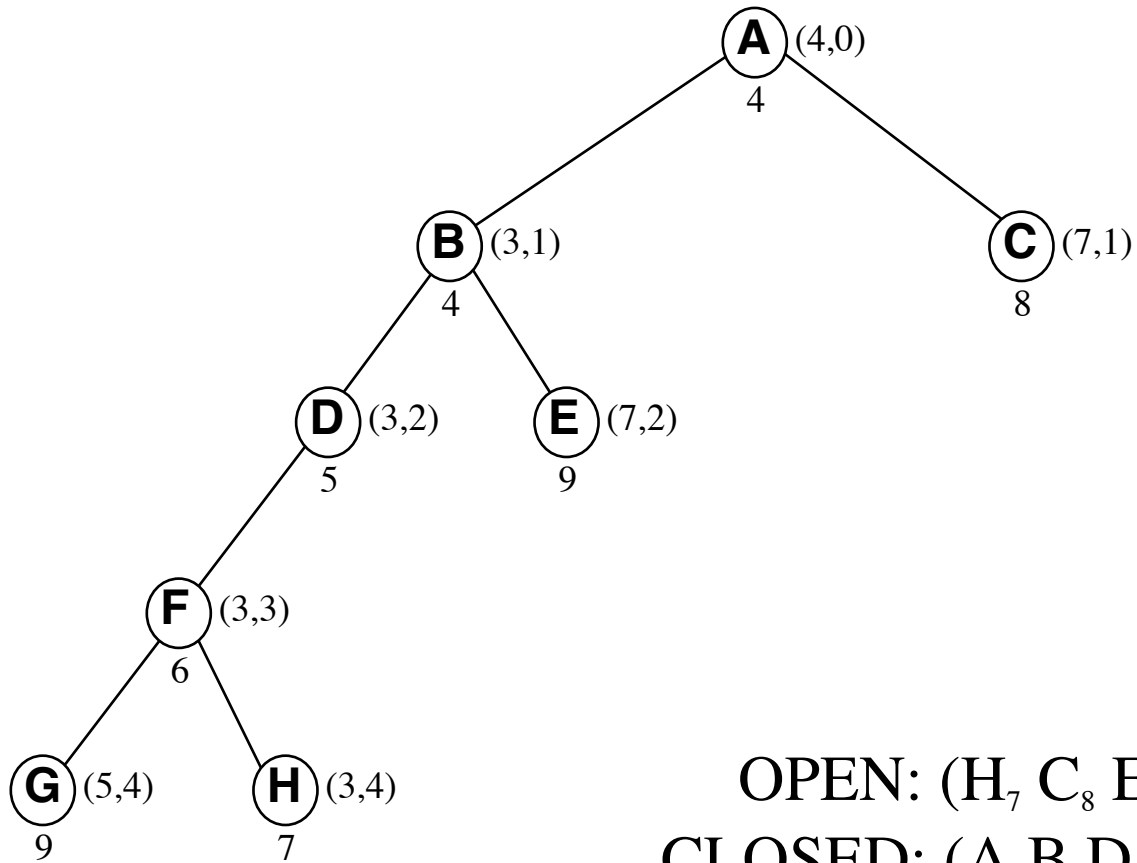
OPEN: (D<sub>5</sub> C<sub>8</sub> E<sub>9</sub>)  
CLOSED: (A B)

# Example of A\*

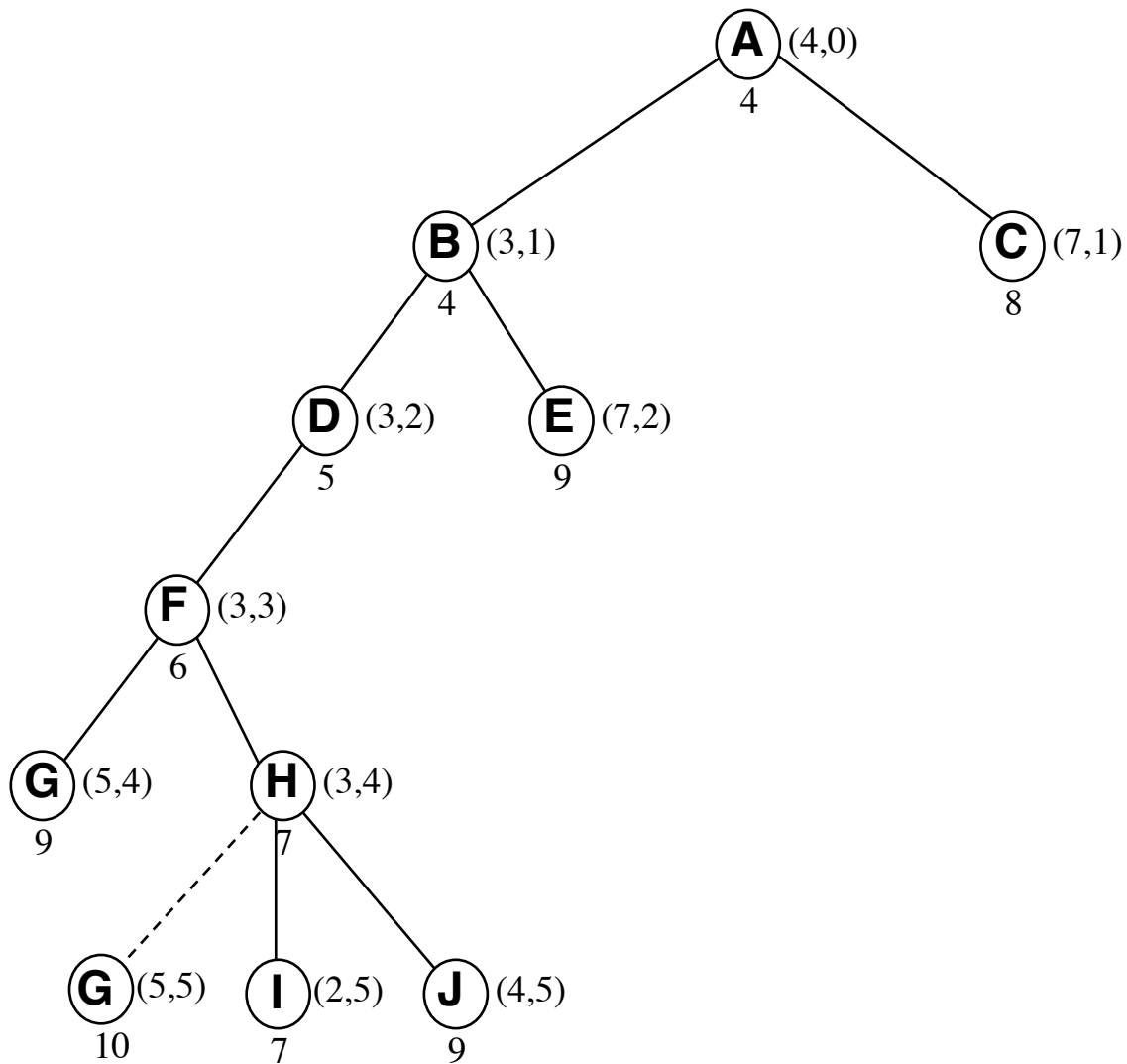


OPEN: (F<sub>6</sub> C<sub>8</sub> E<sub>9</sub>)  
CLOSED: (A B D)

# Example of A\*

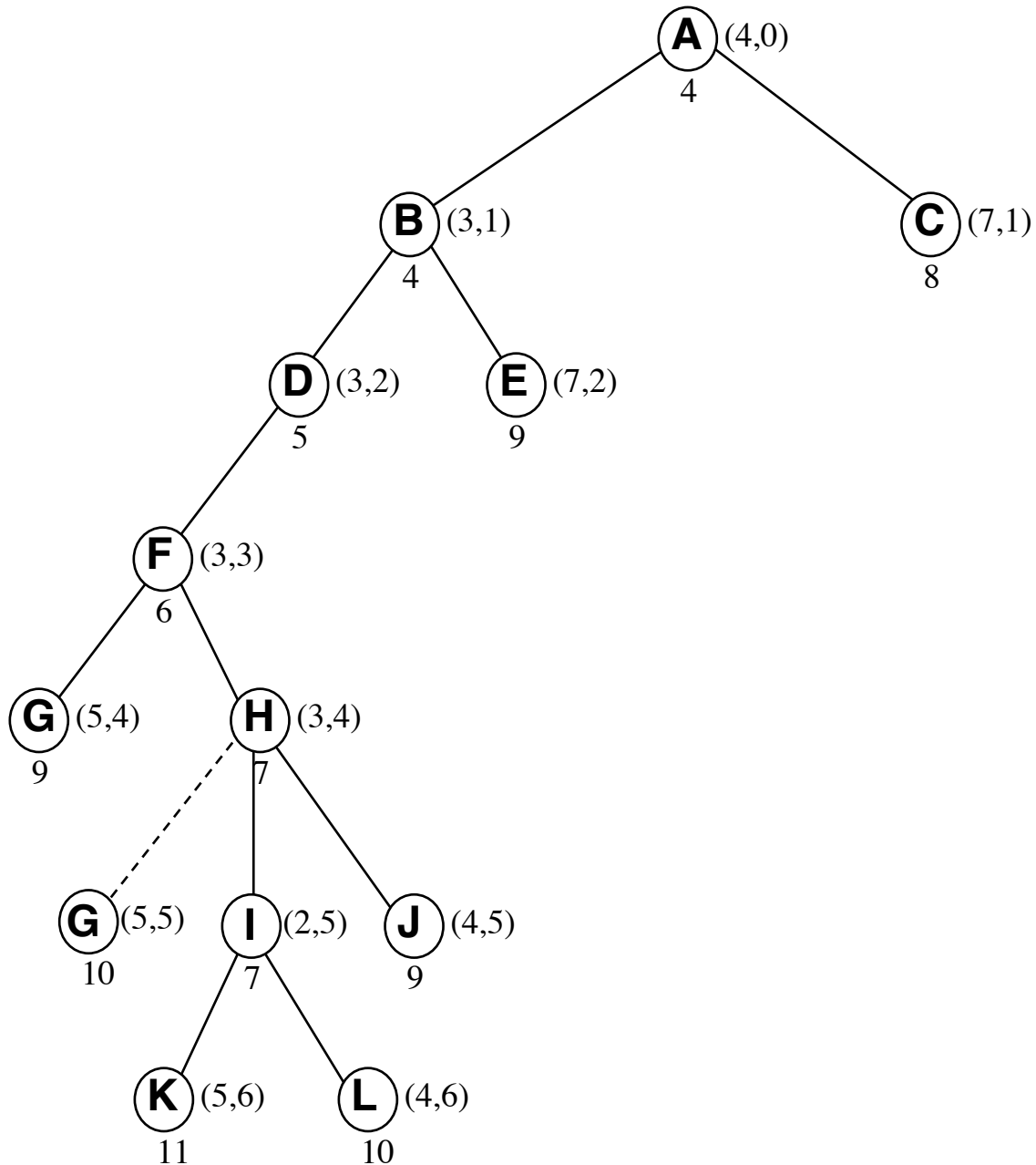


# Example of A\*



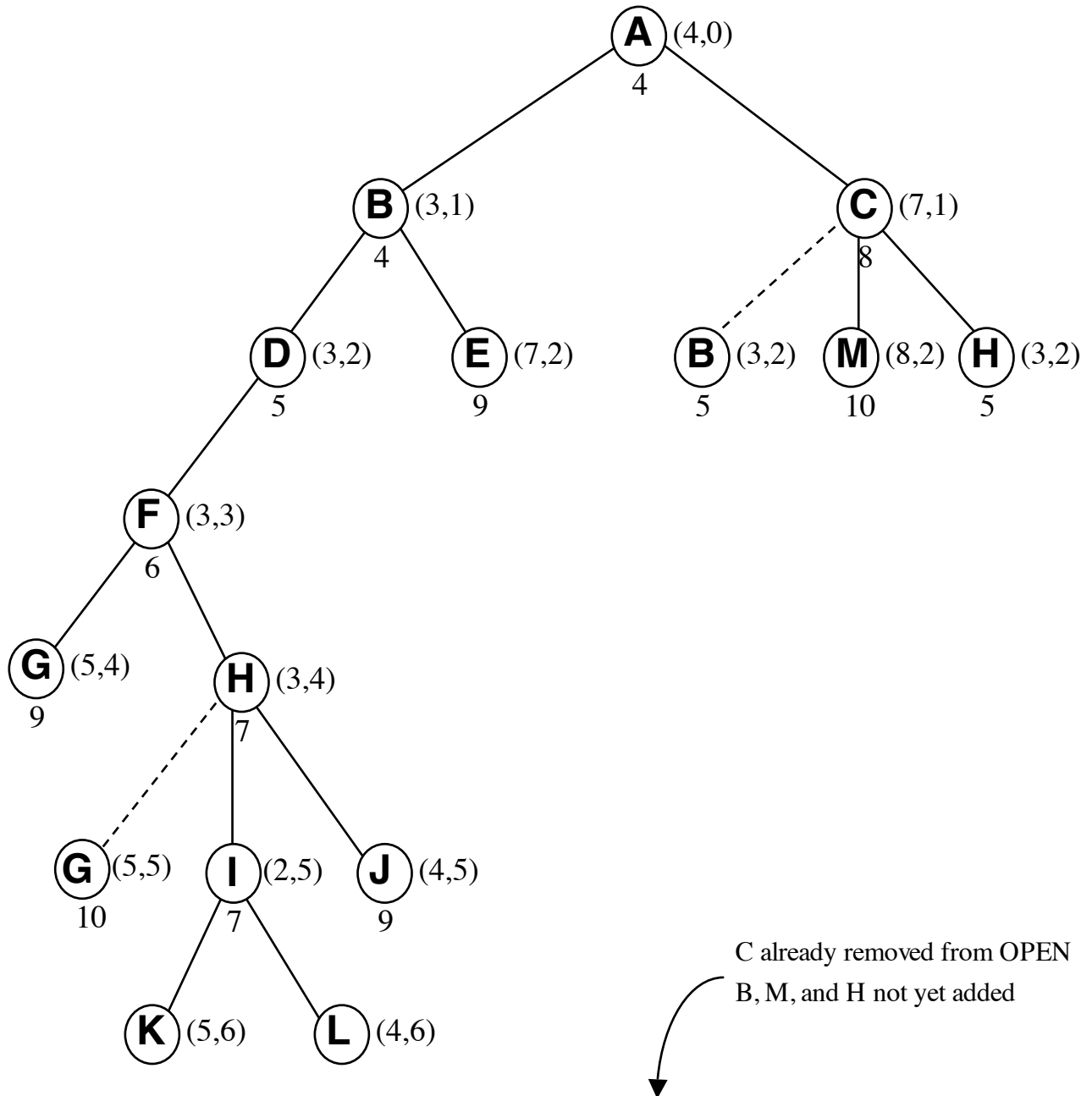
OPEN: (I<sub>7</sub> C<sub>8</sub> E<sub>9</sub> G<sub>9</sub> J<sub>9</sub> L<sub>10</sub> K<sub>11</sub>)  
CLOSED: (A B D F H)

# Example of A\*



OPEN: (C<sub>8</sub> E<sub>9</sub> G<sub>9</sub> J<sub>9</sub> L<sub>10</sub> K<sub>11</sub>)  
CLOSED: (A B D F H I)

# Example of A\*

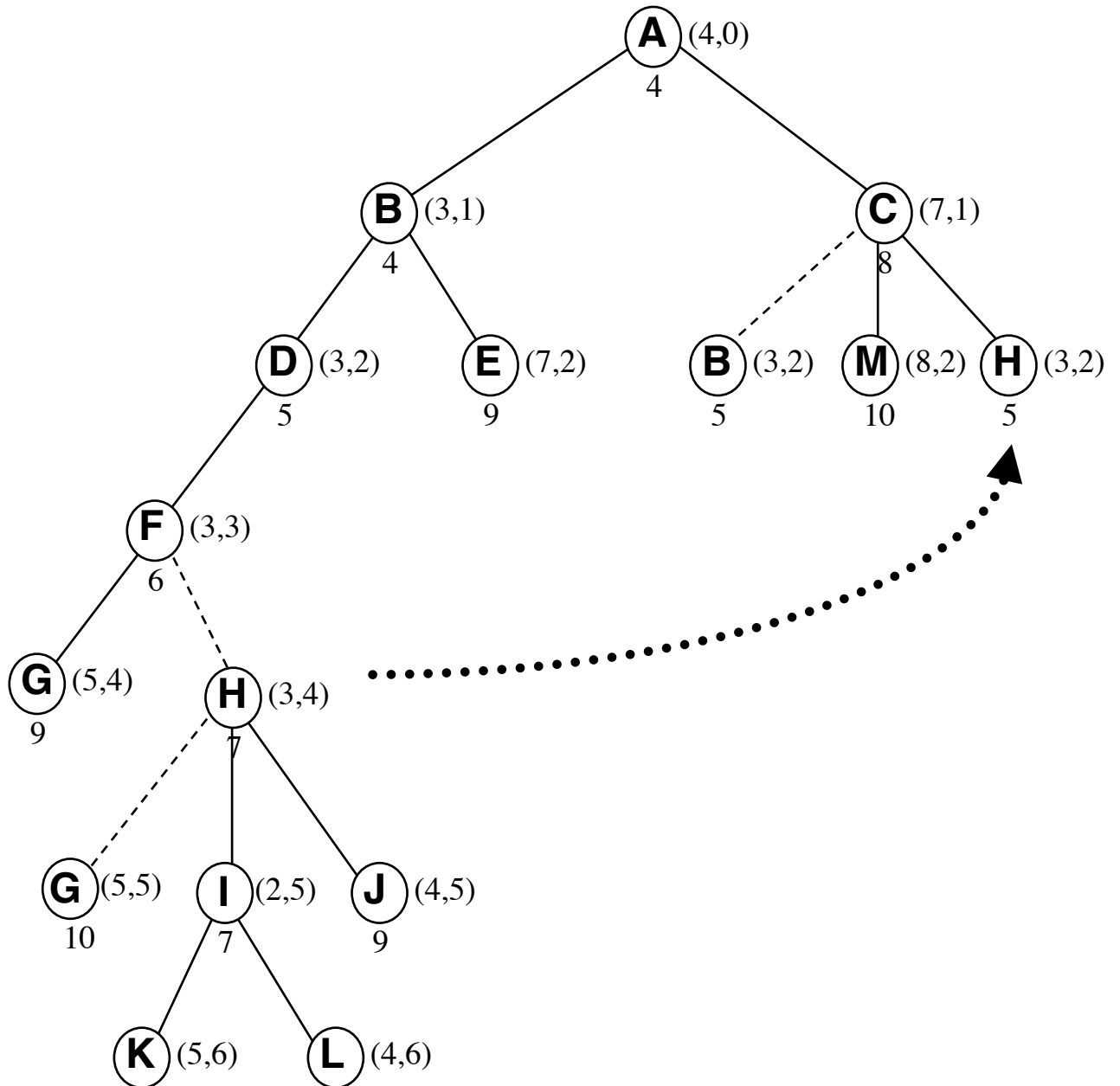


C already removed from OPEN  
B, M, and H not yet added

OPEN: (E<sub>9</sub> G<sub>9</sub> J<sub>9</sub> L<sub>10</sub> K<sub>11</sub>)  
CLOSED: (A B D F H I)

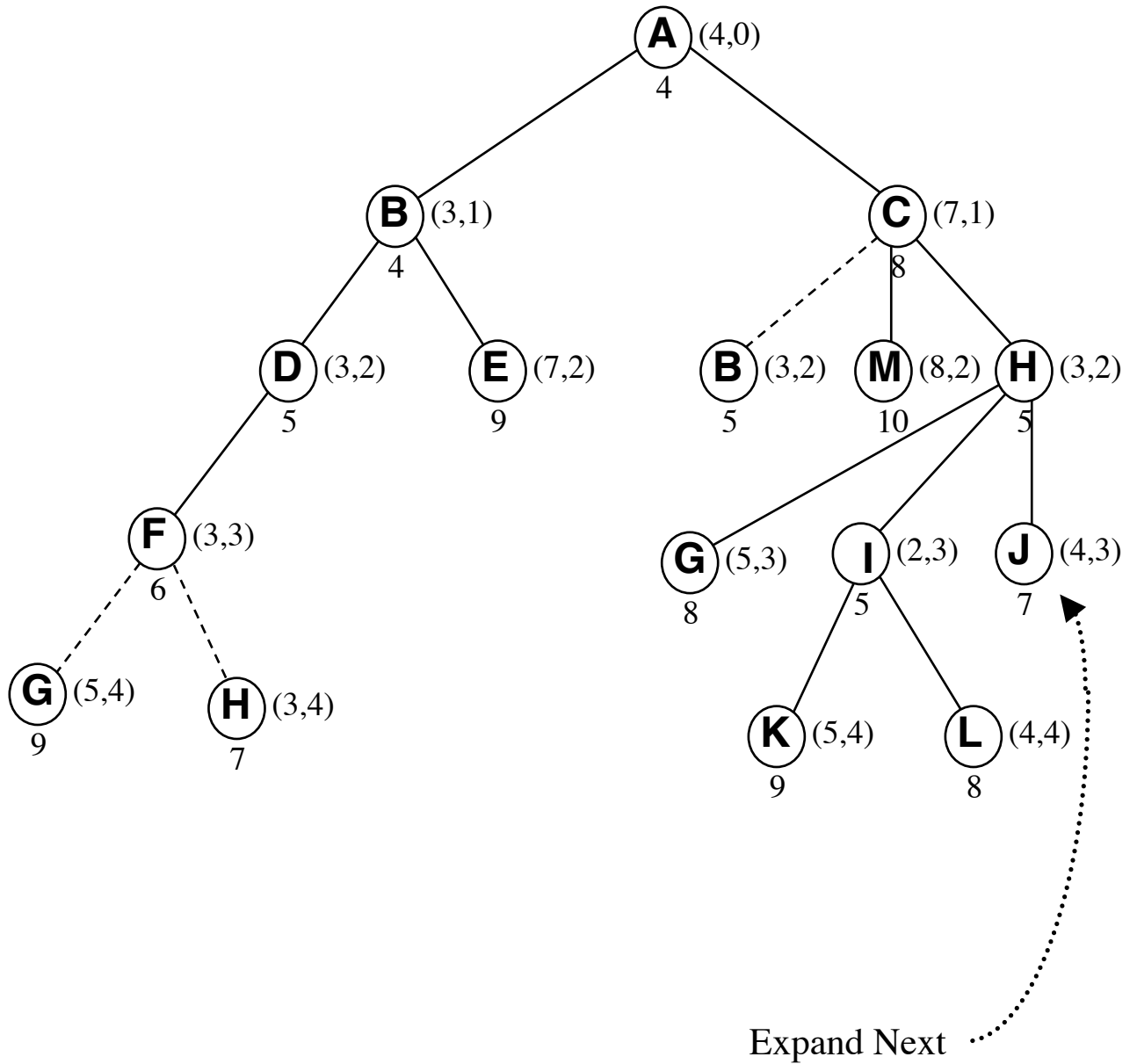


## Example of $A^*$



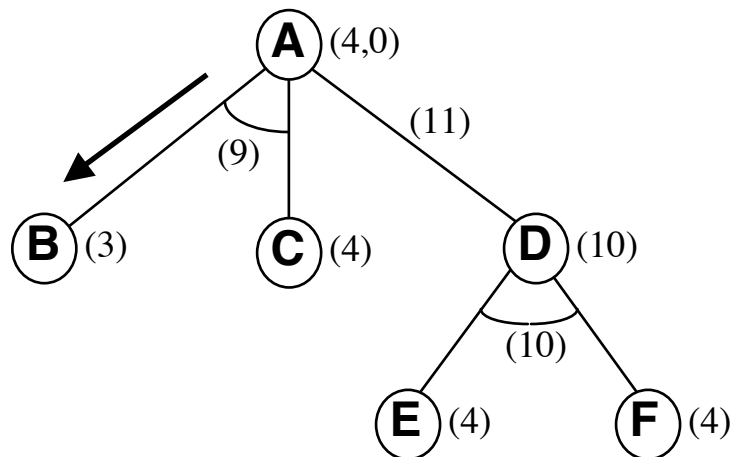
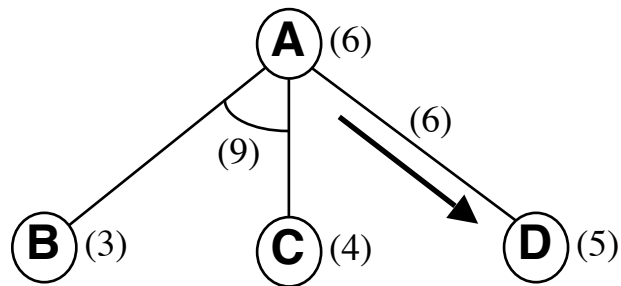
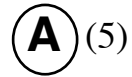
OPEN: (E<sub>9</sub> G<sub>9</sub> J<sub>9</sub> L<sub>10</sub> M<sub>10</sub> K<sub>11</sub>)  
 CLOSED: (A B D F H I)

# Example of A\*



OPEN: ( $J_7$   $G_8$   $L_8$   $E_9$   $K_9$   $M_{10}$ )  
 CLOSED: (A B D F H I)

# Example of Problem Reduction (AO\*)



# Example of Problem Reduction (AO\*)

