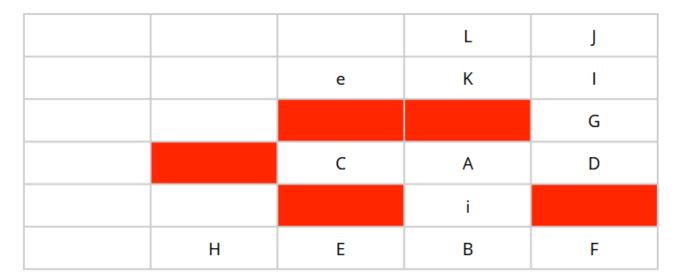
Algoritmo A



$$E = \{\} F = \{_0 i_4^4\}$$
 $T(i)$

$$E = \{_0i_4^4\} F = \{_1A_3^4, _1B_5^6\}$$
 $T(A)$

$$E = \{_0i_4^4, _1A_3^4\} F = \{_1B_5^6, _3C_2^5, _3D_4^7\}$$
 T(C)

$$E = \{_0i_4^4, _1A_3^4, _3C_2^5\} F = \{_1B_5^6, _3D_4^7\}$$
 T(B)

$$E = \{_{0}i_{4}^{4}, {_{1}}A_{3}^{4}, {_{3}}C_{2}^{5}, {_{1}}B_{5}^{6}\} F = \{_{3}D_{4}^{7}, {_{3}}E_{4}^{7}, {_{3}}F_{6}^{9}\} T(D)$$

$$E = \{_{0}i_{4}^{4}, {_{1}}A_{3}^{4}, {_{3}}C_{2}^{5}, {_{1}}B_{5}^{6}, {_{3}}D_{4}^{7}\} F = \{_{3}E_{4}^{7}, {_{3}}F_{6}^{9}, {_{4}}G_{3}^{7}\} T(E)$$

$$E = \{_{0}i_{4}^{4}, {_{1}A_{3}}^{4}, {_{3}C_{2}}^{5}, {_{1}B_{5}}^{6}, {_{3}D_{4}}^{7}, {_{3}E_{4}}^{7}\} F = \{_{3}F_{6}^{9}, {_{4}G_{3}}^{7}, {_{5}H_{5}}^{10}\}$$
 T(G)

$$E = \{_{0}i_{4}^{4}, {_{1}A_{3}}^{4}, {_{3}C_{2}}^{5}, {_{1}B_{5}}^{6}, {_{3}D_{4}}^{7}, {_{3}E_{4}}^{7}, {_{4}G_{3}}^{7}\} F = \{_{3}F_{6}^{9}, {_{5}H_{5}}^{10}, {_{6}J_{3}}^{9}, {_{7}K_{1}}^{8}\}$$
 T(K)

$$E = \{_{0}i_{4}^{4}, _{1}A_{3}^{4}, _{3}C_{2}^{5}, _{1}B_{5}^{6}, _{3}D_{4}^{7}, _{3}E_{4}^{7}, _{4}G_{3}^{7}, _{7}K_{1}^{8}\} F = \{_{3}F_{6}^{9}, _{5}H_{5}^{10}, _{6}J_{3}^{9}, _{8}L_{2}^{10}, _{9}e_{0}^{9}\}$$
 T(F)

$$E = \{_{0}i_{4}^{4}, _{1}A_{3}^{4}, _{3}C_{2}^{5}, _{1}B_{5}^{6}, _{3}D_{4}^{7}, _{3}E_{4}^{7}, _{4}G_{3}^{7}, _{7}K_{1}^{8}, _{3}F_{6}^{9}\} F = \{_{5}H_{5}^{10}, _{6}J_{3}^{9}, _{8}L_{2}^{10}, _{9}e_{0}^{9}\}$$
 $T(J)$

$$E = \{_{0}i_{4}^{4}, {_{1}A_{3}}^{4}, {_{3}C_{2}}^{5}, {_{1}B_{5}}^{6}, {_{3}D_{4}}^{7}, {_{3}E_{4}}^{7}, {_{4}G_{3}}^{7}, {_{7}K_{1}}^{8}, {_{3}F_{6}}^{9}, {_{6}J_{3}}^{9}\} F = \{_{5}H_{5}^{10}, {_{8}L_{2}}^{10}, {_{9}e_{0}}^{9}\}$$
 T(e)

$$E = \{0i_4^4, {}_1A_3^4, {}_3C_2^5, {}_1B_5^6, {}_3D_4^7, {}_3E_4^7, {}_4G_3^7, {}_7K_1^8, {}_3F_6^9, {}_6J_3^9, {}_9e_0^9\} F = \{{}_5H_5^{10}, {}_8L_2^{10}\}$$

Solución: i, A, D, G, I, K, e

- 1. La heurística utilizada en el algoritmo A, ¿es admisible? ¿Por qué?
- ¿Podemos decir que el algoritmo es A*?

La eurística es admisible porque la distancia Manhattan nunca supera a la distancia real, por tanto este algoritmo es A^* .