



Q1  $\langle E, D, 16, 26 \rangle \checkmark$

$\langle F, D, 19, 27 \rangle$

$\langle C, D, 37, 51 \rangle$

$\langle A, D, 38, 53 \rangle$

$\langle H, E, 0, 21 \rangle \checkmark$

$D \rightarrow E \rightarrow H$

Q2

$\langle E, D, 10 \rangle \quad \langle I, F, 15 \rangle$

$\langle F, D, 8 \rangle$

$\langle C, D, 14 \rangle$

$\langle A, D, 15 \rangle$

$\langle H, E, 21 \rangle$

$\langle G, F, 10 \rangle$

Q3 The A search only find only one way to the goal , The Dijkstra's algorithm.

start  
end

if node > 2  
{ start = end  
 end = { num }  
 start remove