3.2. Greedy Best-First Search.
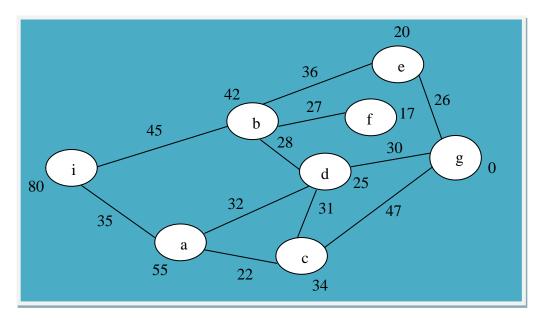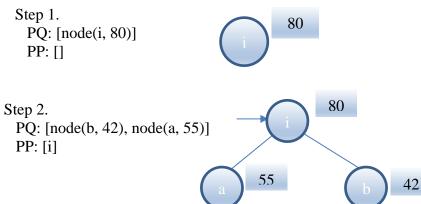
An example (problem instance):
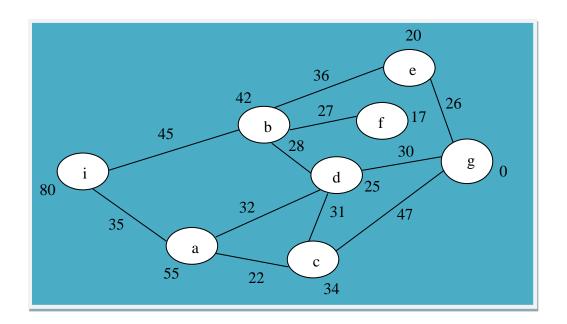

i – Initial state/node   g – Goal state/node

h- Heuristic function (Straight-line distance up to g)
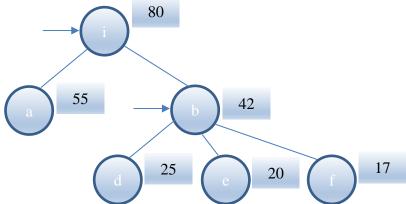
Execution of Greedy Best-First Search:

Step 1.
   PQ: [node(i, 80)]
   PP: []

Step 2.
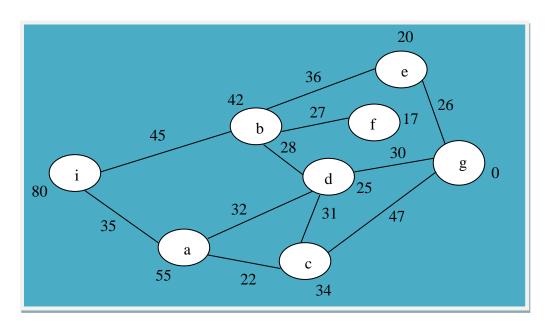   PQ: [node(b, 42), node(a, 55)]
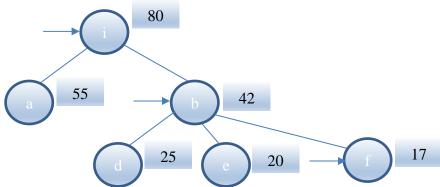   PP: [i]

Step 3.
  PQ: [node(f, 17), node(e, 20), node(d, 25), node(a, 55)]
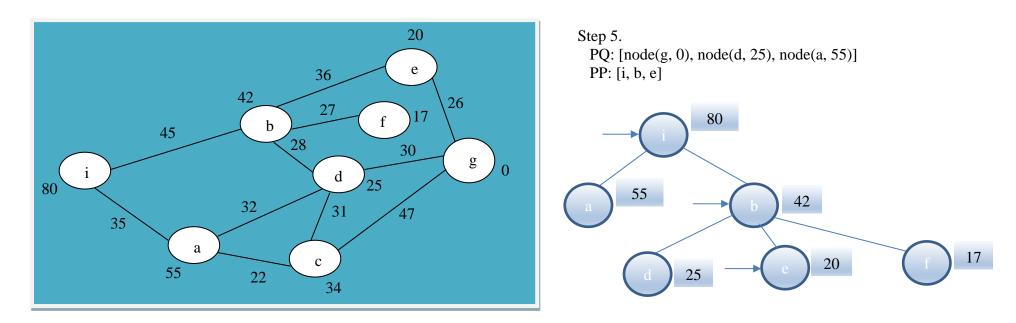 PP: [i, b]

Step 4.
  PQ: [node(e, 20), node(d, 25), node(a, 55)]
  PP: [i, b, f]

Next, from 'PQ: [node(g, 0), node(d, 25), node(a, 55)]' goal node g gets selected, so, **terminate with Solution [i, b, e, g] that costs 107.**