Manual execution of a simple graph

Graph data:

014

0 2 2

123

1 3 2

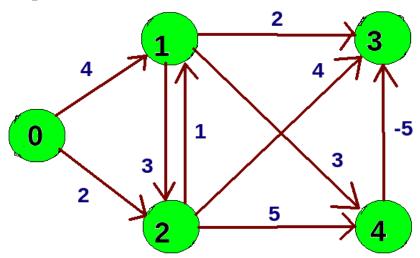
143

2 1 1 2 3 4

2 4 5

4 3 -5

Graph visualization



Source vertex: 0, Target vertex 3

Iteration 1

Flag: True

Edge: (0, 1)

Distance: [0, 4, inf, inf, inf]

Predecessor: [False, 0, False, False, False]

Flag: True

Edge: (0, 2)

Distance: [0, 4, 2, inf, inf]

Predecessor: [False, 0, 0, False, False]

Flag: True

Edge: (1, 2)

Distance: [0, 4, 2, inf, inf]

Predecessor: [False, 0, 0, False, False]

Flag: True

```
Edge: (1, 3)
                Distance: [0, 4, 2, 6, inf]
                Predecessor: [False, 0, 0, 1, False]
Flag: True
        Edge: (1, 4)
                Distance: [0, 4, 2, 6, 7]
                Predecessor: [False, 0, 0, 1, 1]
Flag: True
        Edge: (2, 1)
                Distance: [0, 3, 2, 6, 7]
                Predecessor: [False, 2, 0, 1, 1]
Flag: True
        Edge: (2, 3)
                Distance: [0, 3, 2, 6, 7]
                Predecessor: [False, 2, 0, 1, 1]
Flag: True
        Edge: (2, 4)
                Distance: [0, 3, 2, 6, 7]
                Predecessor: [False, 2, 0, 1, 1]
Flag: True
        Edge: (4, 3)
                Distance: [0, 3, 2, 2, 7]
                Predecessor: [False, 2, 0, 4, 1]
Iteration 2
Flag: False
        Edge: (0, 1)
                Distance: [0, 3, 2, 2, 7]
                Predecessor: [False, 2, 0, 4, 1]
Flag: False
        Edge: (0, 2)
                Distance: [0, 3, 2, 2, 7]
                Predecessor: [False, 2, 0, 4, 1]
Flag: False
        Edge: (1, 2)
                Distance: [0, 3, 2, 2, 7]
                Predecessor: [False, 2, 0, 4, 1]
Flag: False
        Edge: (1, 3)
                Distance: [0, 3, 2, 2, 7]
                Predecessor: [False, 2, 0, 4, 1]
Flag: True
        Edge: (1, 4)
                Distance: [0, 3, 2, 2, 6]
                Predecessor: [False, 2, 0, 4, 1]
Flag: True
        Edge: (2, 1)
                Distance: [0, 3, 2, 2, 6]
                Predecessor: [False, 2, 0, 4, 1]
```

```
Flag: True
        Edge: (2, 3)
                Distance: [0, 3, 2, 2, 6]
                Predecessor: [False, 2, 0, 4, 1]
Flag: True
        Edge: (2, 4)
                Distance: [0, 3, 2, 2, 6]
                Predecessor: [False, 2, 0, 4, 1]
Flag: True
        Edge: (4, 3)
                Distance: [0, 3, 2, 1, 6]
                Predecessor: [False, 2, 0, 4, 1]
Iteration 3
Flag: False
        Edge: (0, 1)
                Distance: [0, 3, 2, 1, 6]
                Predecessor: [False, 2, 0, 4, 1]
Flag: False
        Edge: (0, 2)
                Distance: [0, 3, 2, 1, 6]
                Predecessor: [False, 2, 0, 4, 1]
Flag: False
        Edge: (1, 2)
                Distance: [0, 3, 2, 1, 6]
                Predecessor: [False, 2, 0, 4, 1]
Flag: False
        Edge: (1, 3)
                Distance: [0, 3, 2, 1, 6]
                Predecessor: [False, 2, 0, 4, 1]
Flag: False
        Edge: (1, 4)
                Distance: [0, 3, 2, 1, 6]
                Predecessor: [False, 2, 0, 4, 1]
Flag: False
        Edge: (2, 1)
                Distance: [0, 3, 2, 1, 6]
                Predecessor: [False, 2, 0, 4, 1]
Flag: False
        Edge: (2, 3)
                Distance: [0, 3, 2, 1, 6]
                Predecessor: [False, 2, 0, 4, 1]
Flag: False
        Edge: (2, 4)
                Distance: [0, 3, 2, 1, 6]
                Predecessor: [False, 2, 0, 4, 1]
Flag: False
        Edge: (4, 3)
                Distance: [0, 3, 2, 1, 6]
```

Predecessor: [False, 2, 0, 4, 1]