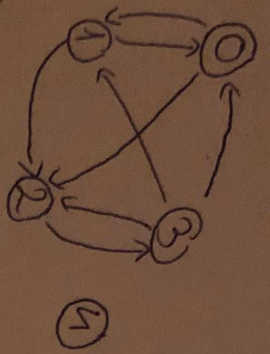


Graph



From 0 to 3

Final result
the minimum path is:

$P[3] = 2 \Rightarrow 1$
 $P[2] = 0 \Rightarrow 2$

So, the path is:
 $0 \rightarrow 2 \rightarrow 3$

The length is: 2

Manual execution

minimum-path (0)

tail = []

[0]

$[0] \Rightarrow x = 0$

[1]

[1, 2]

$[1, 2] \Rightarrow x = 1$

$[2] \Rightarrow x = 2$

[3]

$[3] \Rightarrow x = 3$

[] - empty

return: [0, 1, 2, 3] - visited
[None, 0, 0, 2, None]

predecessor = []

[None, None, None, None]

out-neighbours = {1, 2}

$y = 1$ (not visited)

[None, 0, None, None]

$y = 2$ (not visited)

[None, 0, 0, None]

out-neighbours = {0, 2}

$y = 0$ (visited) \Rightarrow skip

$y = 2$ (visited) \Rightarrow skip

out-neighbours = {3}

$y = 3$ (not visited)

[None, 0, 0, 2, None]

out-neighbours = {0, 1, 2}

$y = 0$ (visited) \Rightarrow skip

$y = 1$ (visited) \Rightarrow skip

$y = 2$ (visited) \Rightarrow skip

visited = []

[0]

[0, 1]

[0, 1, 2]

[0, 1, 2, 3]