

Results

a) q.append('a')
 q.serve()
 q.append('b')
 q.serve()
 q.append('c')
 q.append('d')
 q.serve()

q = [a]
q = []
q = [b]
q = []
q = [c]
q = [c, d]
q = [d]

Variables: x

Results

x

b) q.append('a')
 q.append('b')
 q.retrieve(x)
 q.serve()
 q.append('c')
 q.append(x)
 q.serve()
 q.serve()

q = [a]	NaN
q = [a, b]	NaN
q = [a, b]	a
q = [b]	a
q = [b, c]	a
q = [b, c, a]	a
q = [c, a]	a
q = [a]	a

Variables: x, y

Results

x

y

 q.append('a')
 x = 'b'
 q.append('x')
 q.retrieve(y)
 q.serve()
 q.append(x)
 q.serve()
 q.append(y)

q = [a]	NaN	NaN
q = [a]	b	NaN
q = [a, x]	b	NaN
q = [a, x]	b	a
q = [x]	b	a
q = [x, b]	b	a
q = [b]	b	a
q = [b, a]	b	a