

Results

a)	q.append('a')	q = [a]
	q.serve()	q = []
	q.append('b')	q = [b]
	q.serve()	q = []
	q.append('c')	q = [c]
	q.append('d')	q = [c, d]
	q.serve()	q = [d]

Variables: x

Results

b)	q.append('a')	q = [a]	NaN
	q.append('b')	q = [a, b]	NaN
	q.retrieve(x)	q = [a, b]	a
	q.serve()	q = [b]	a
	q.append('c')	q = [b, c]	a
	q.append(x)	q = [b, c, a]	a
	q.serve()	q = [c, a]	a
	q.serve()	q = [a]	a

Variables: x, y

Results

q.append('a')	q = [a]	NaN	NaN
x = 'b'	q = [a]	b	NaN
q.append('x')	q = [a, x]	b	NaN
q.retrieve(y)	q = [a, x]	b	a
q.serve()	q = [x]	b	a
q.append(x)	q = [x, b]	b	a
q.serve()	q = [b]	b	a
q.append(y)	q = [b, a]	b	a