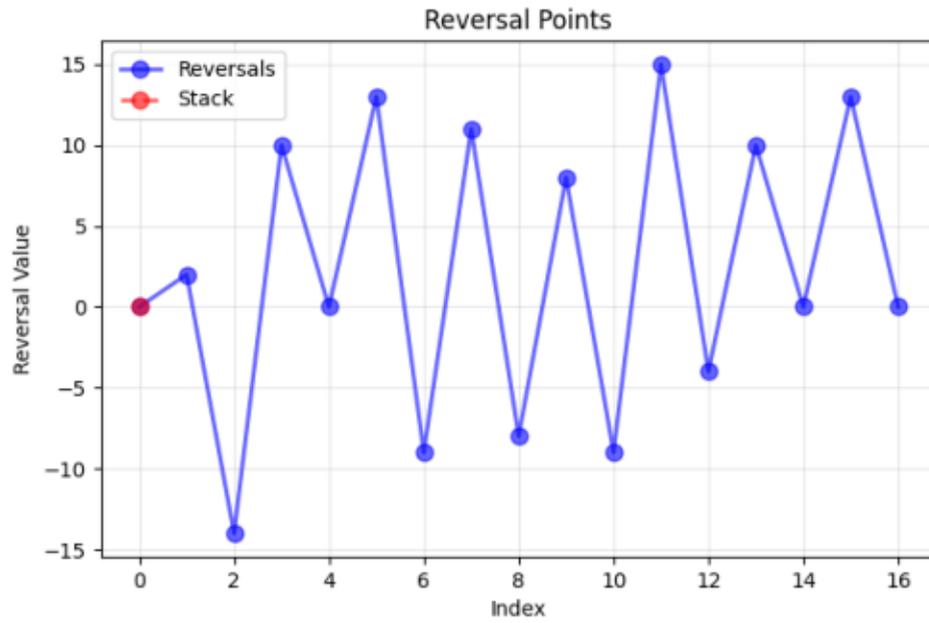


Current Stack

Stack = []

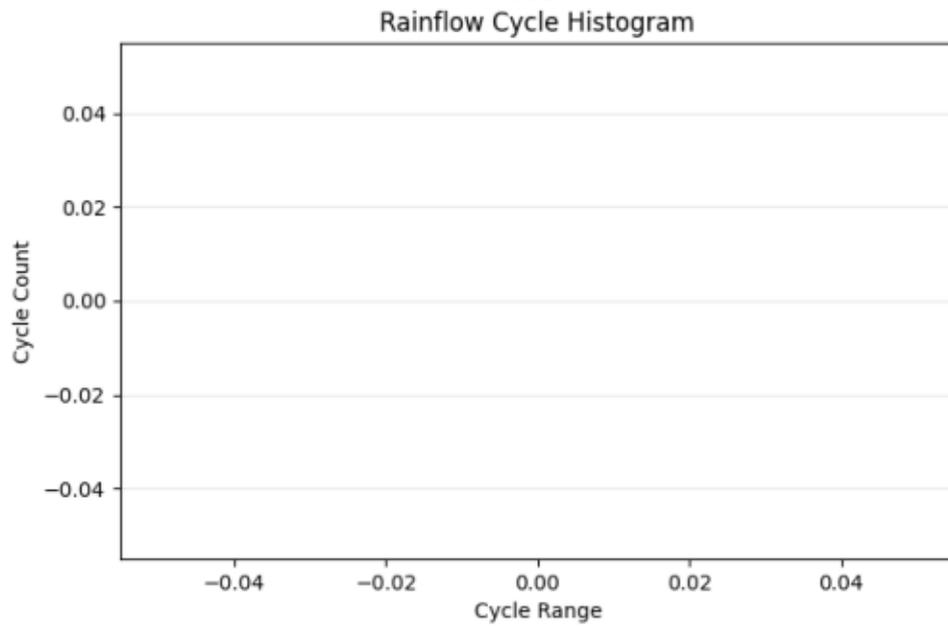
Algorithm Status

Starting algorithm, go to step 1



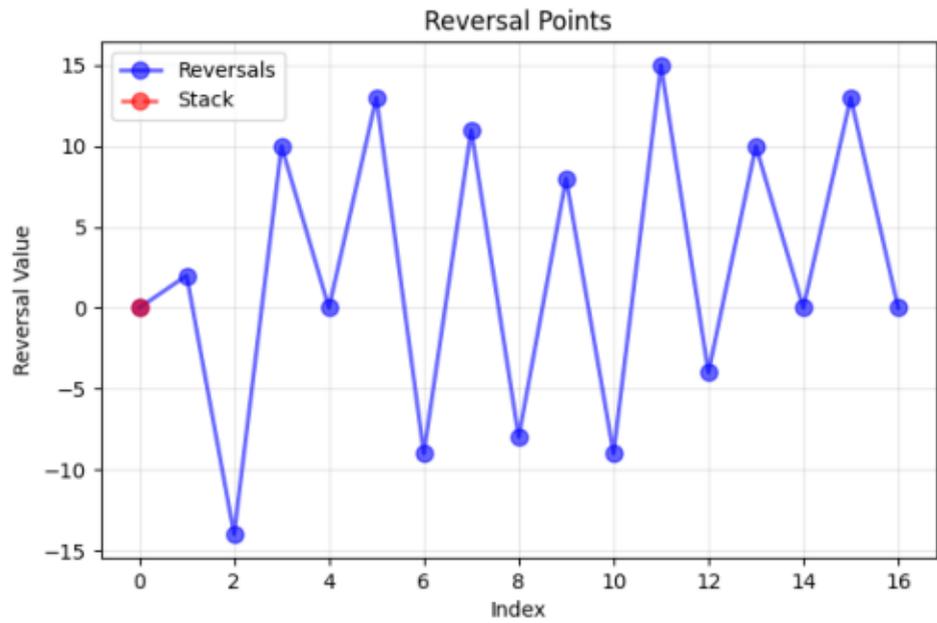
Current Stack

Stack = [0]



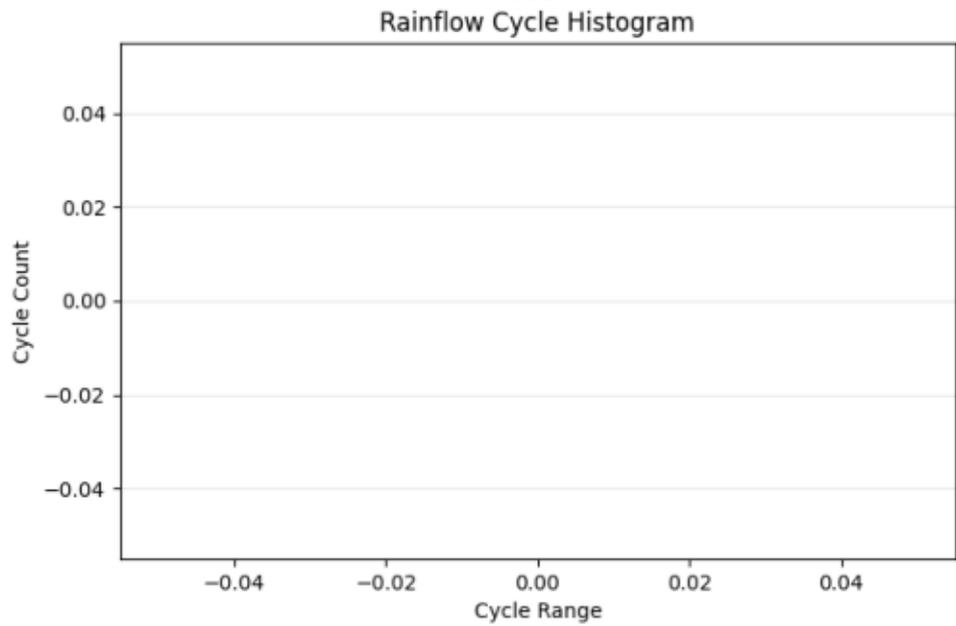
Algorithm Status

Fewer than 3 points, go to step 1



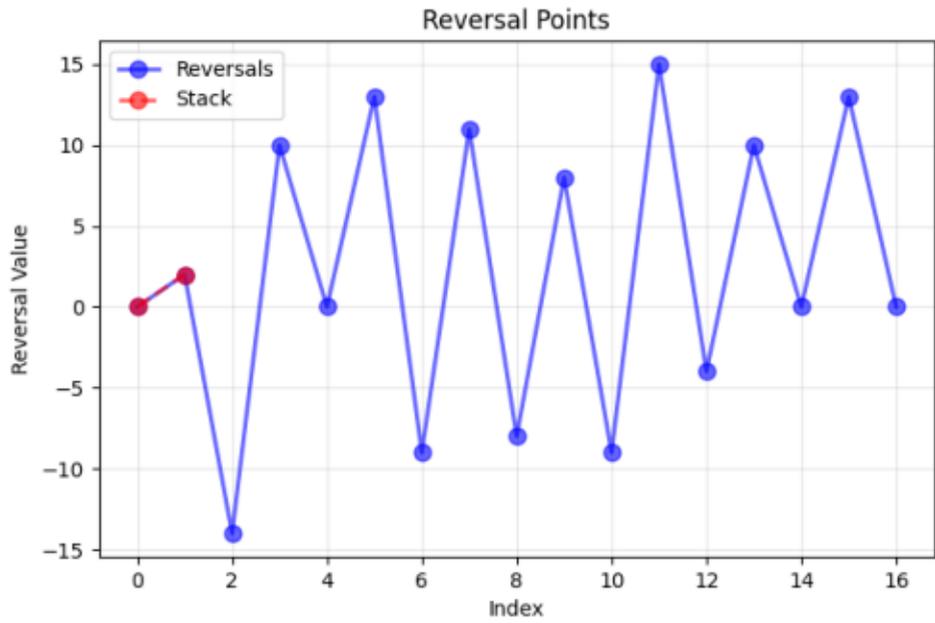
Current Stack

Stack = [0]



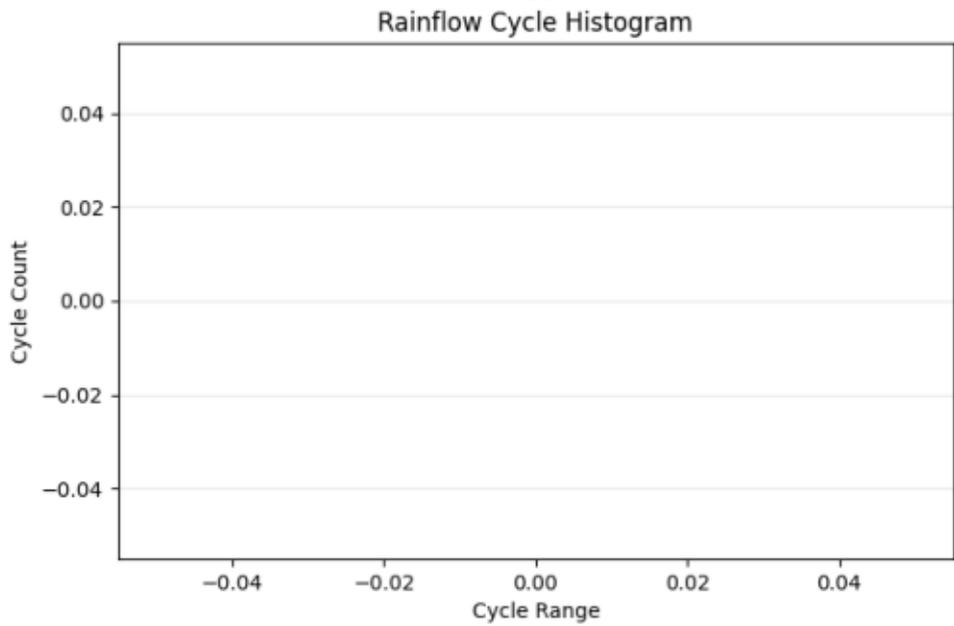
Algorithm Status

Adding to stack



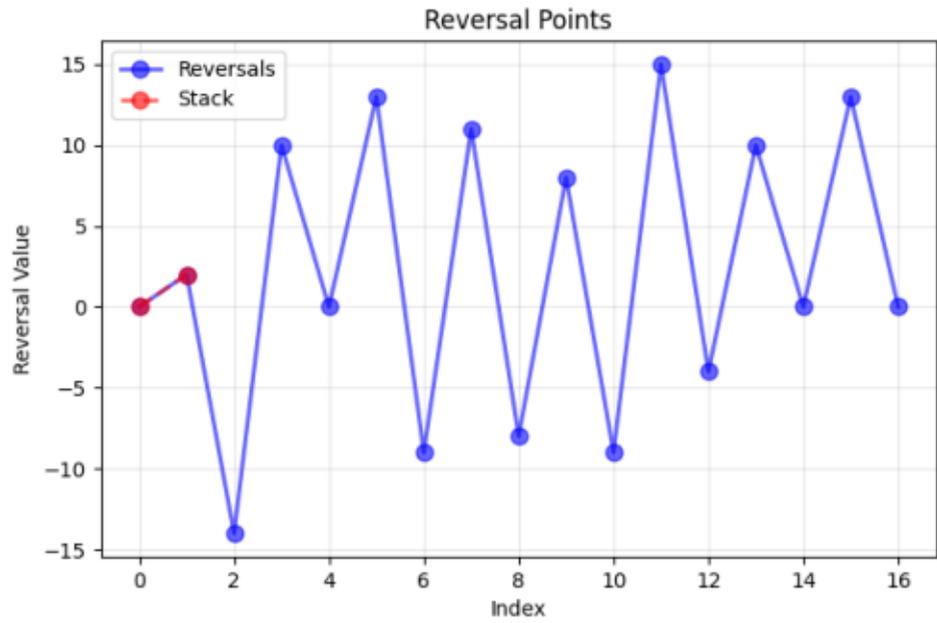
Current Stack

Stack = [0, 2]



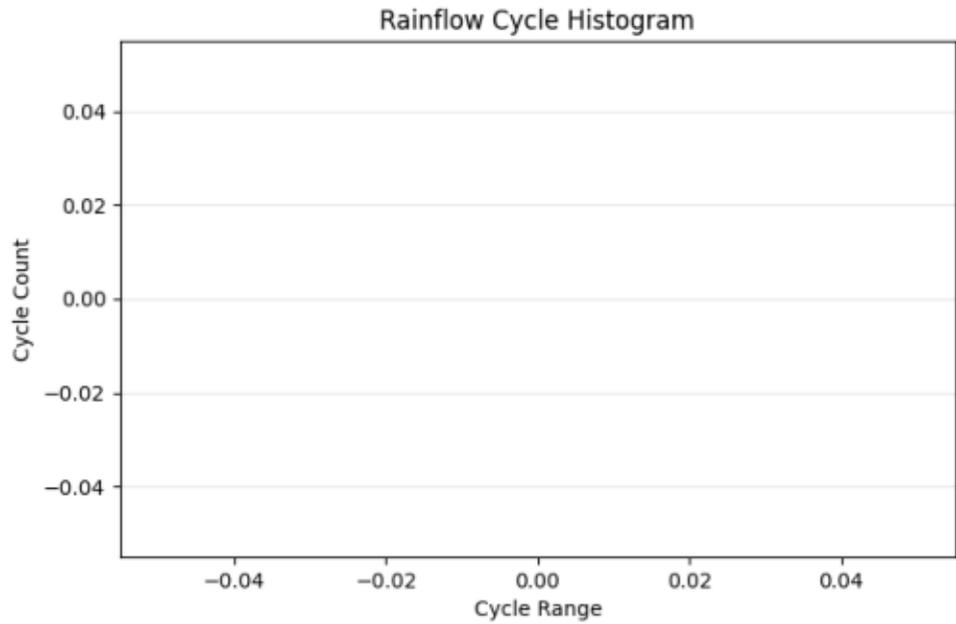
Algorithm Status

Fewer than 3 points, go to step 1



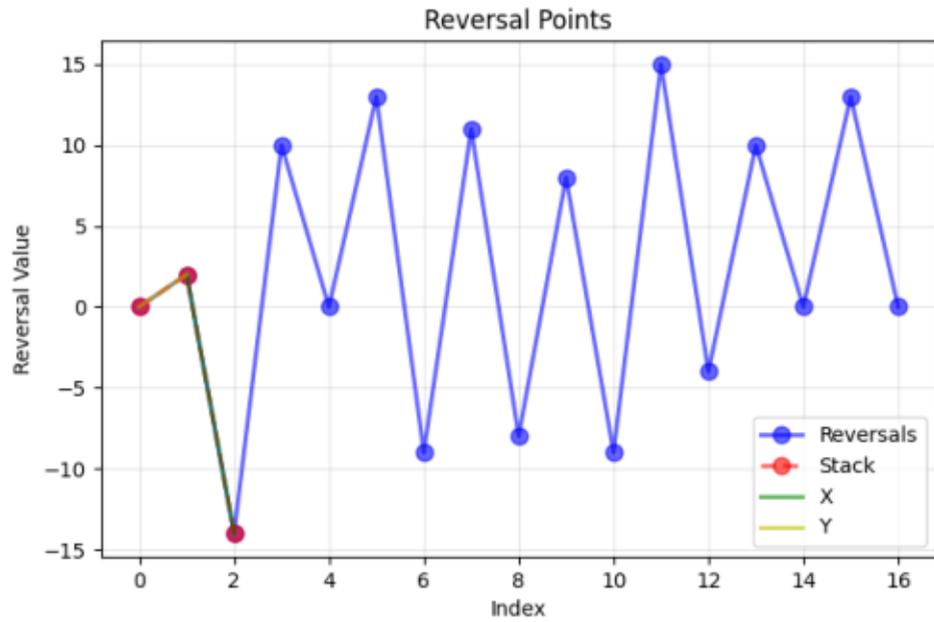
Current Stack

Stack = [0, 2]



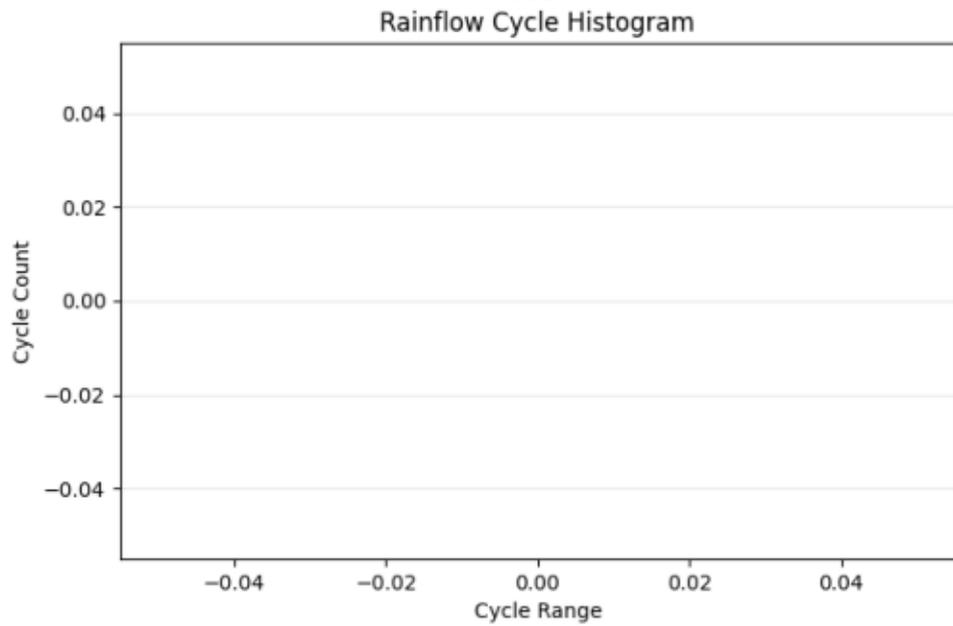
Algorithm Status

Adding to stack



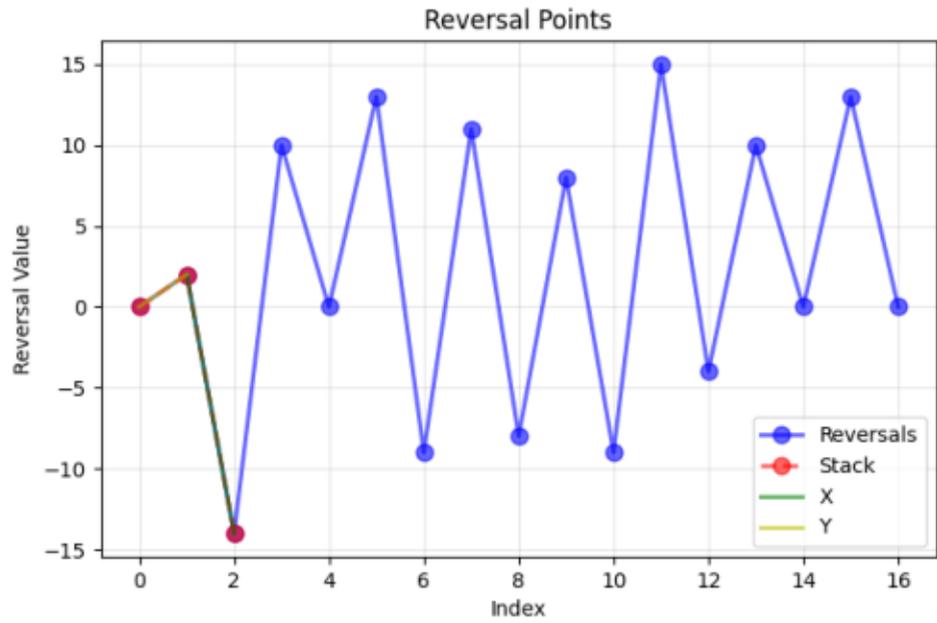
Current Stack

Stack = [0, 2, -14]



Algorithm Status

X = 16 Y = 2

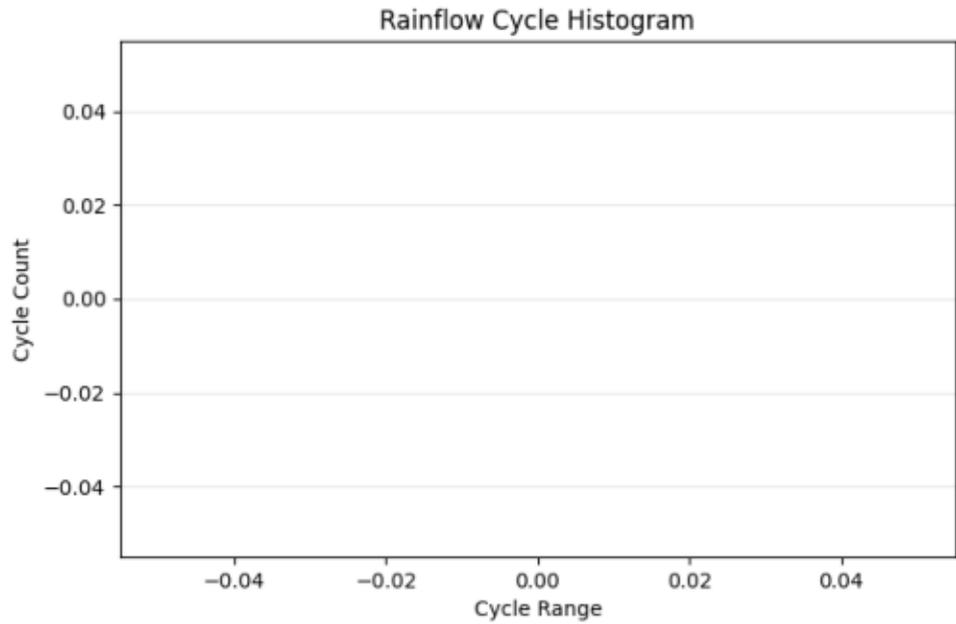


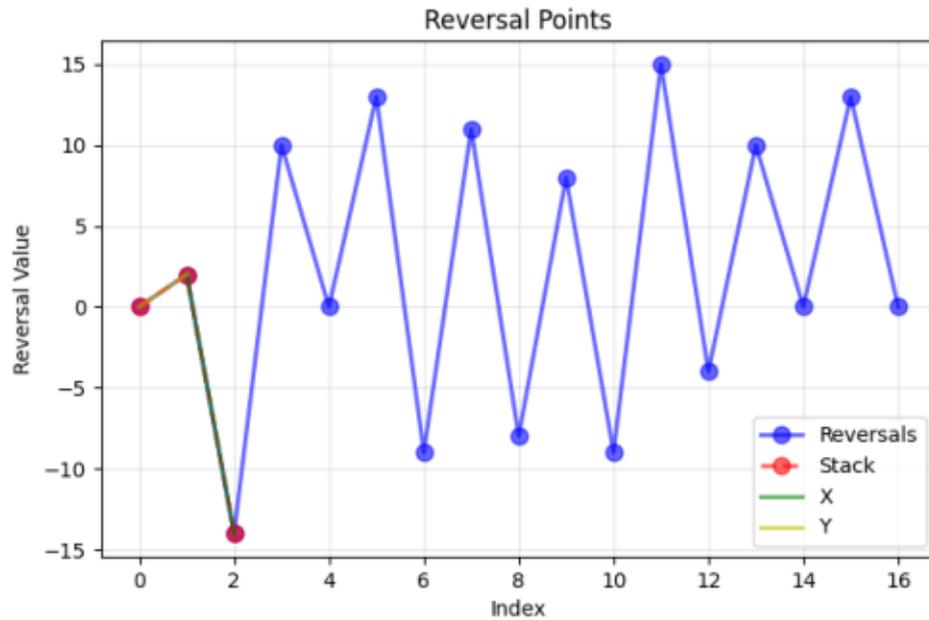
Current Stack

Stack = [0, 2, -14]

Algorithm Status

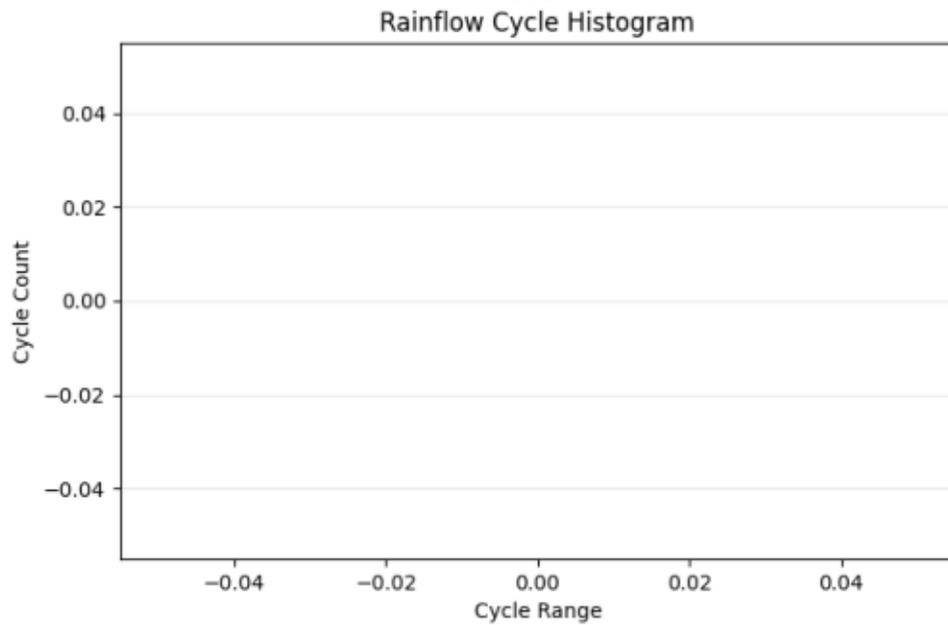
X = 16 Y = 2: X >= Y





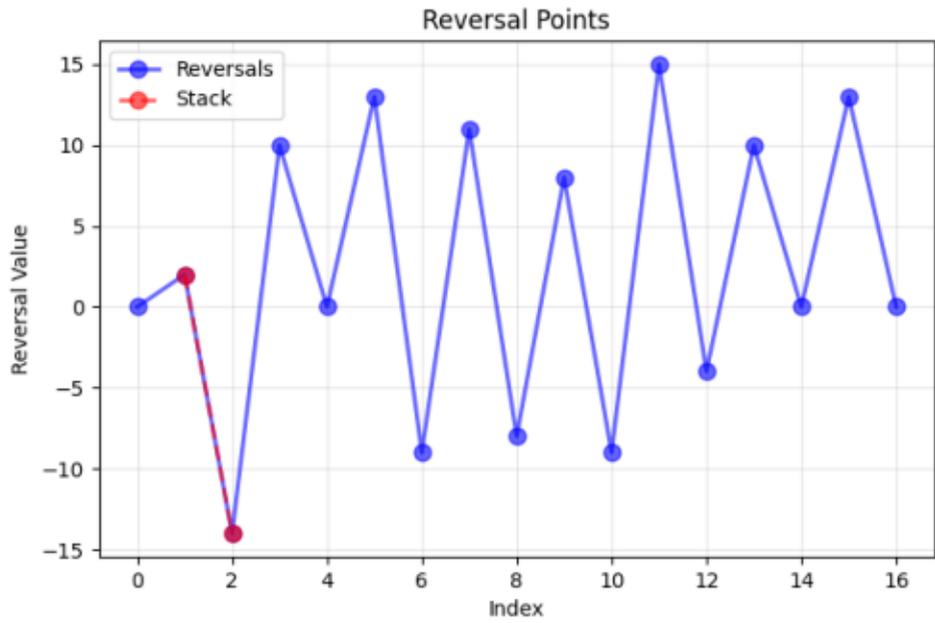
Current Stack

Stack = [0, 2, -14]



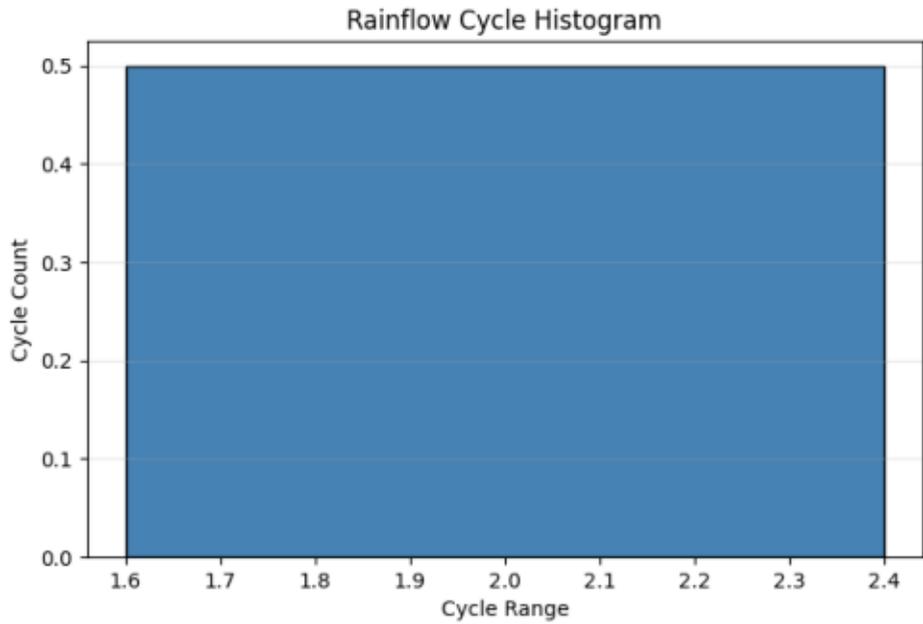
Algorithm Status

First point in Y is starting point, count Y = 2 as a half cycle and remove first point from Y from stack



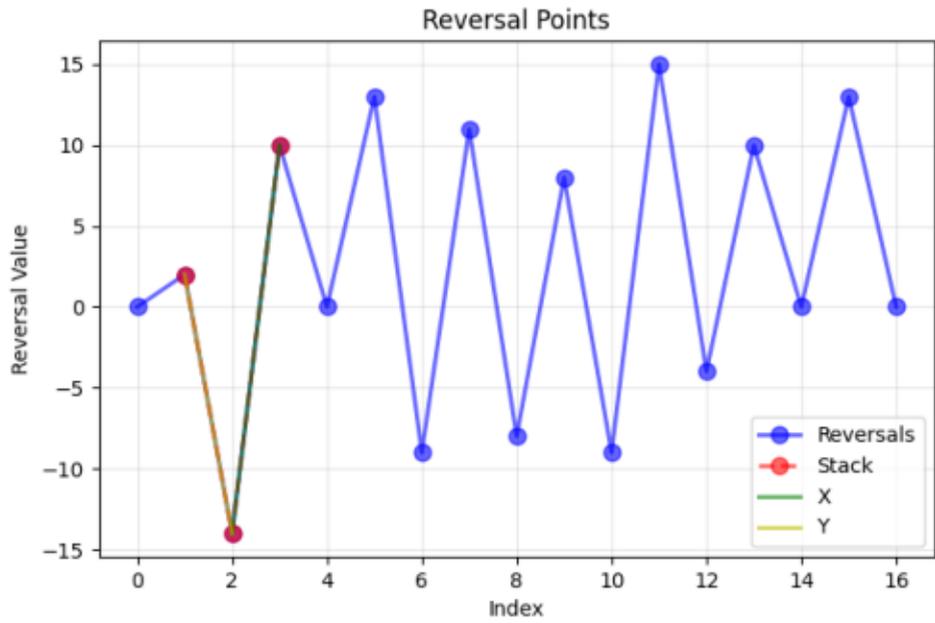
Current Stack

Stack = [2, -14]



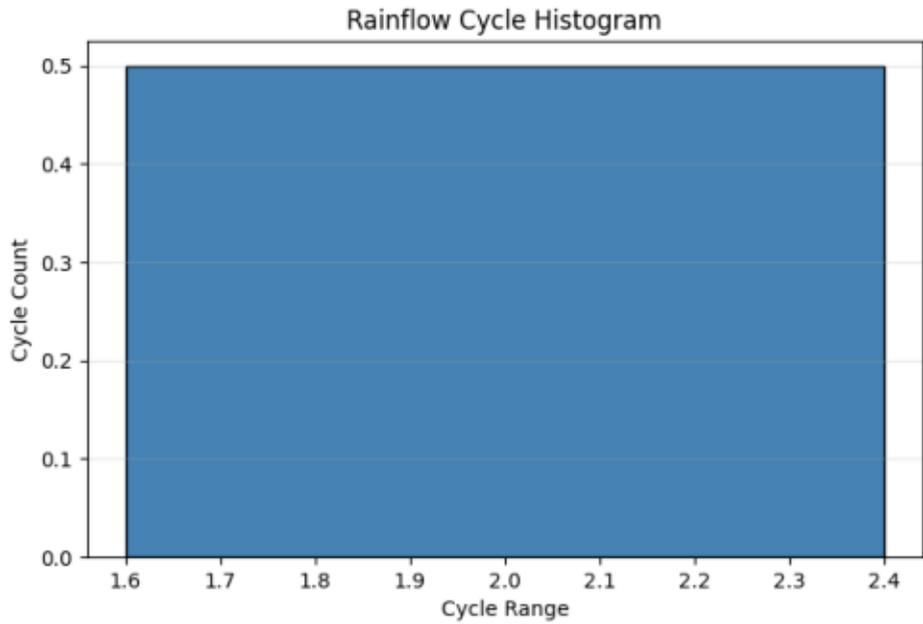
Algorithm Status

First Y point removed from stack



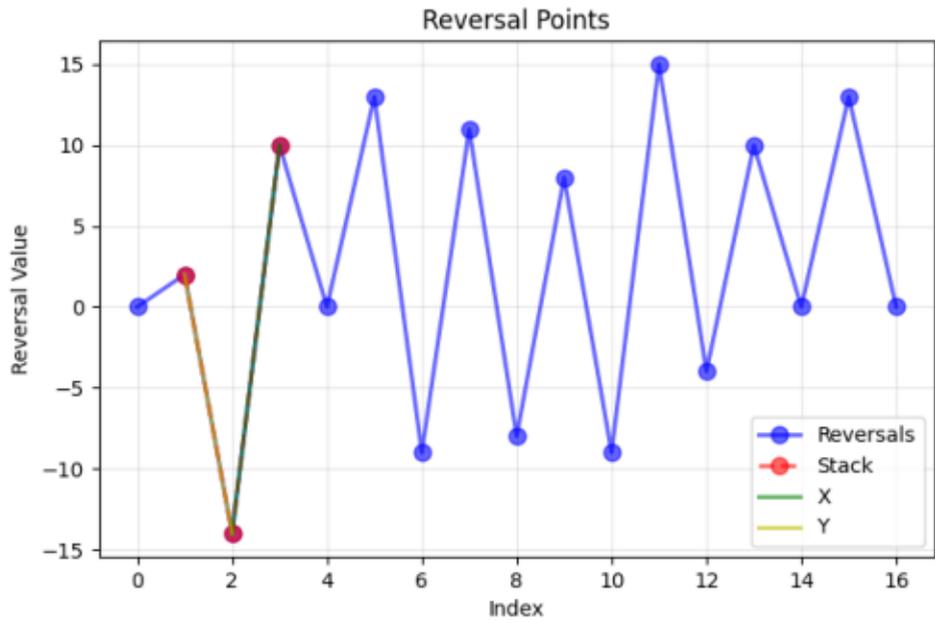
Current Stack

Stack = [2, -14, 10]



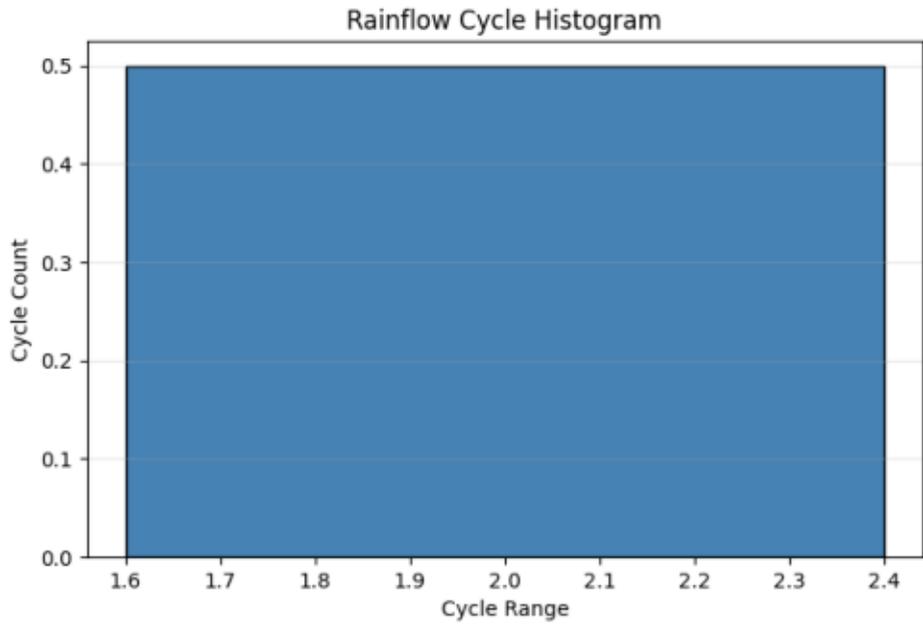
Algorithm Status

X = 24 Y = 16



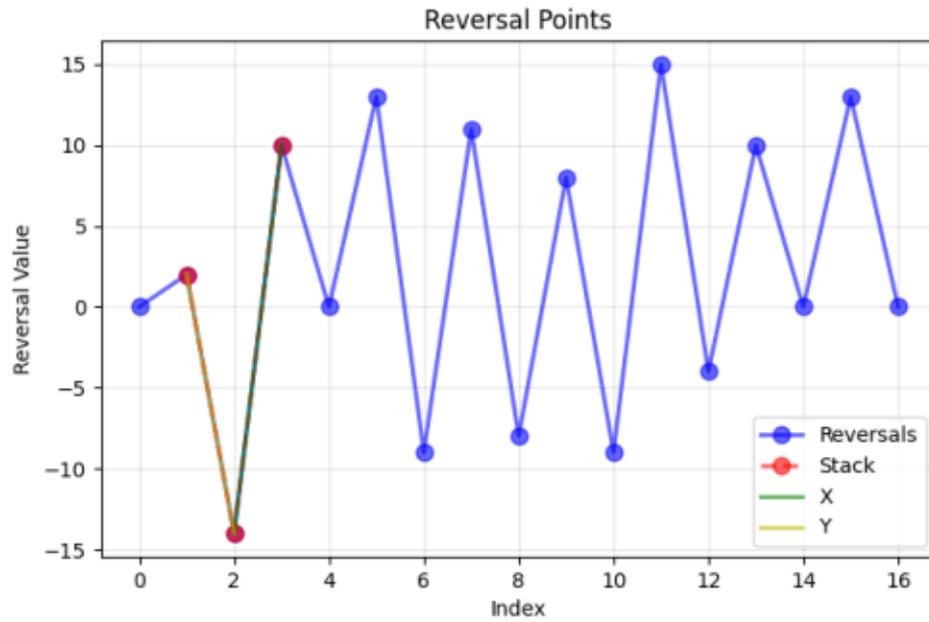
Current Stack

Stack = [2, -14, 10]



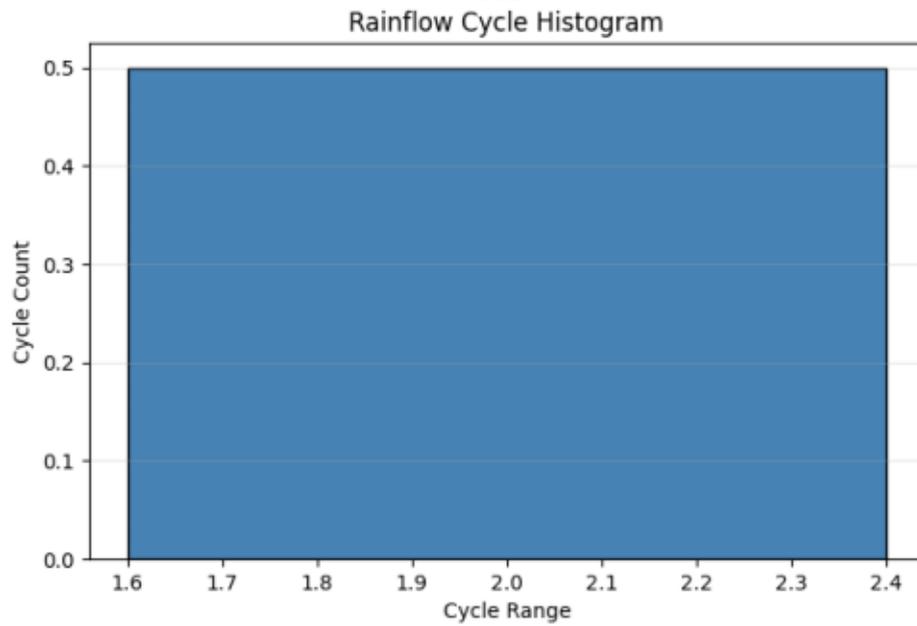
Algorithm Status

$X = 24$ $Y = 16$: $X \geq Y$



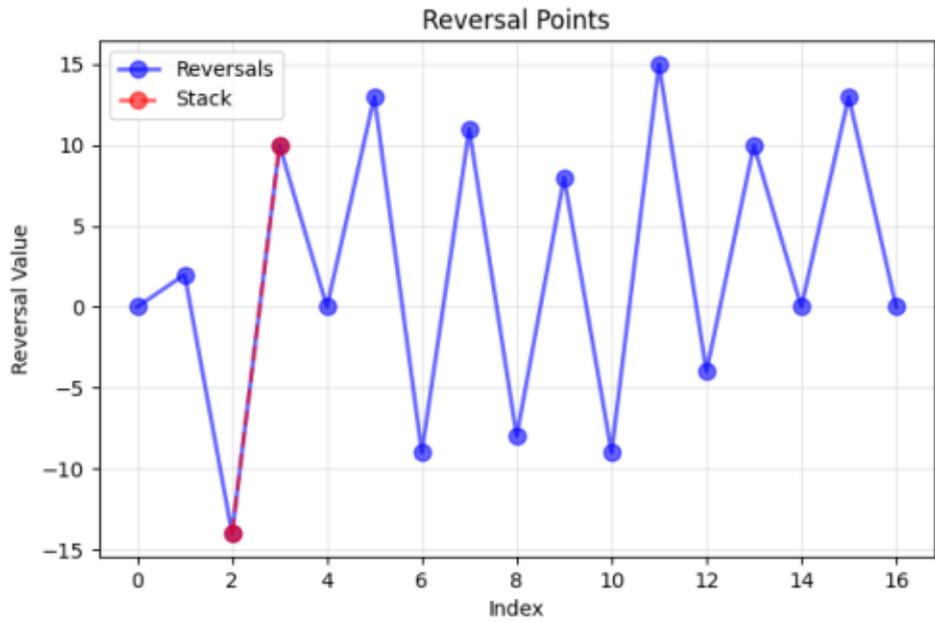
Current Stack

Stack = [2, -14, 10]



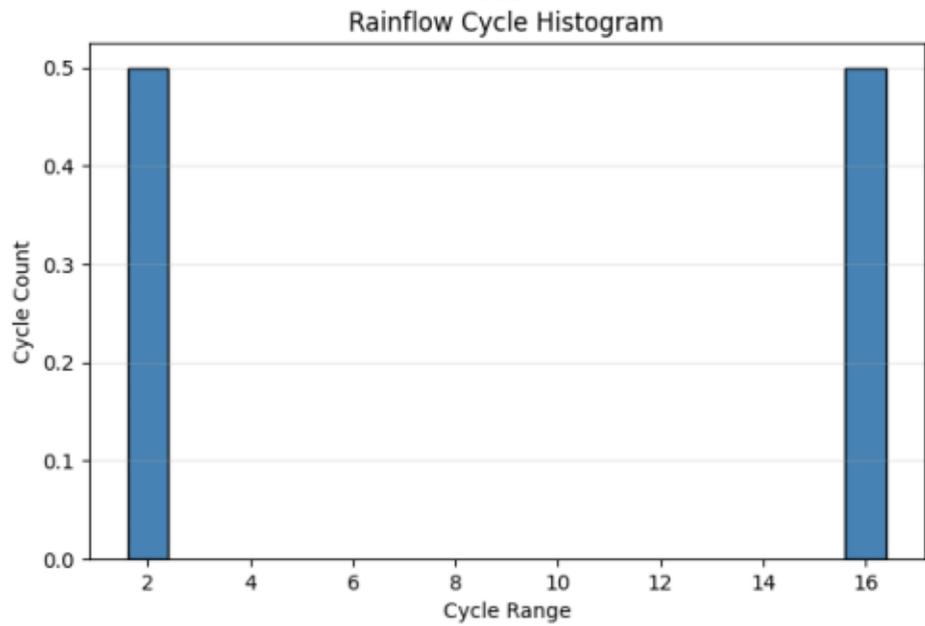
Algorithm Status

First point in Y is starting point, count Y = 16 as a half cycle and remove first point from Y from stack



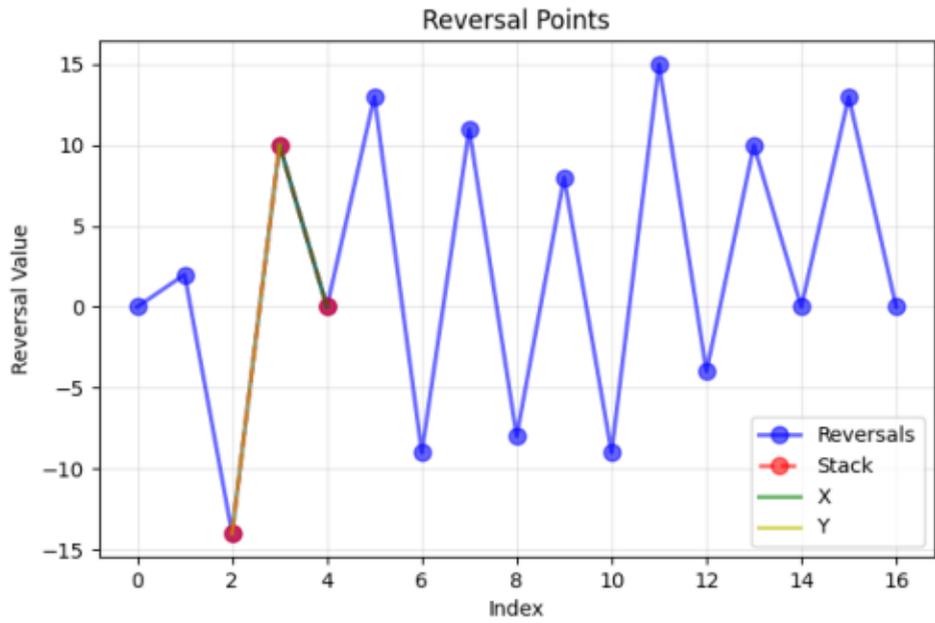
Current Stack

Stack = [-14, 10]



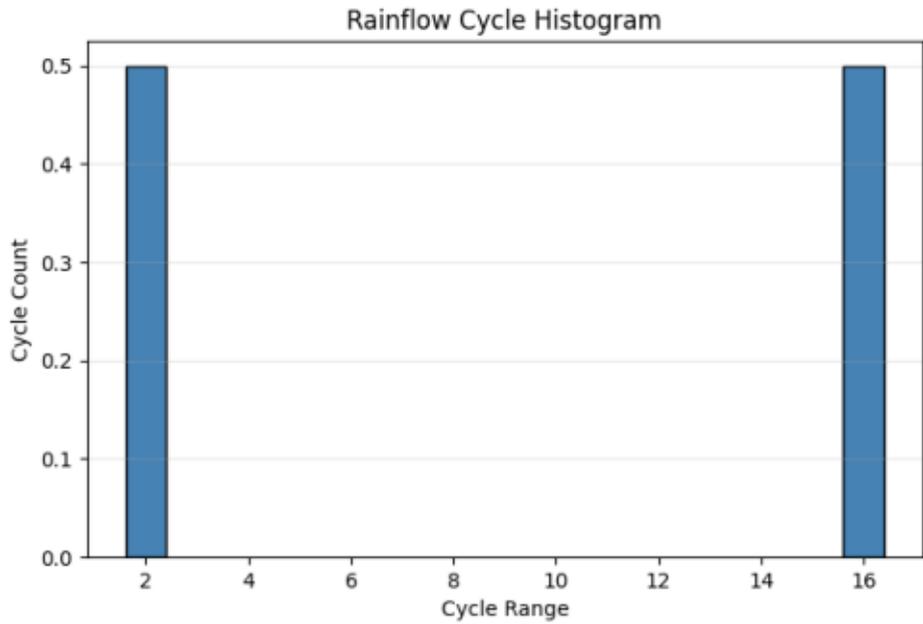
Algorithm Status

First Y point removed from stack



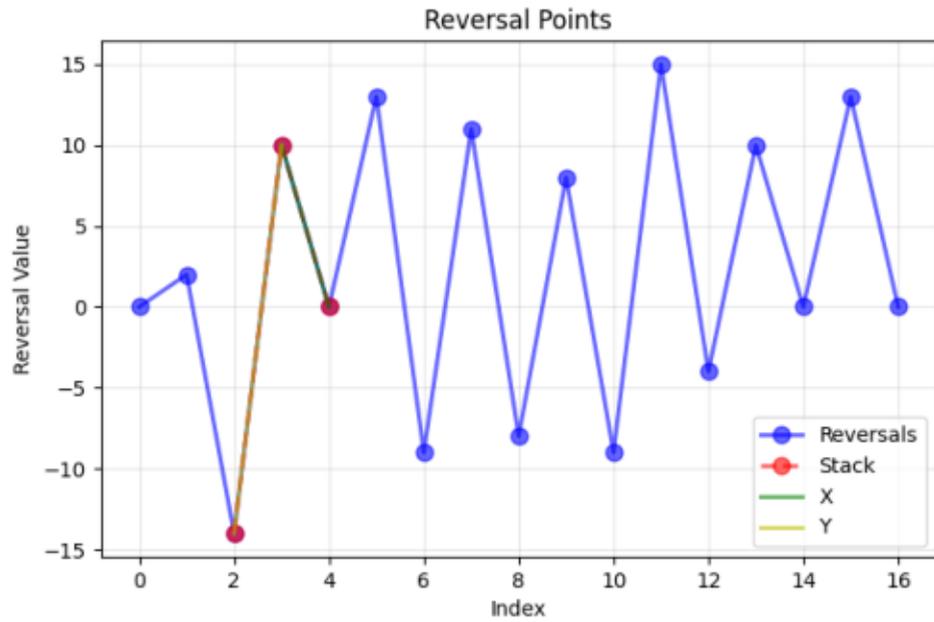
Current Stack

Stack = [-14, 10, 0]



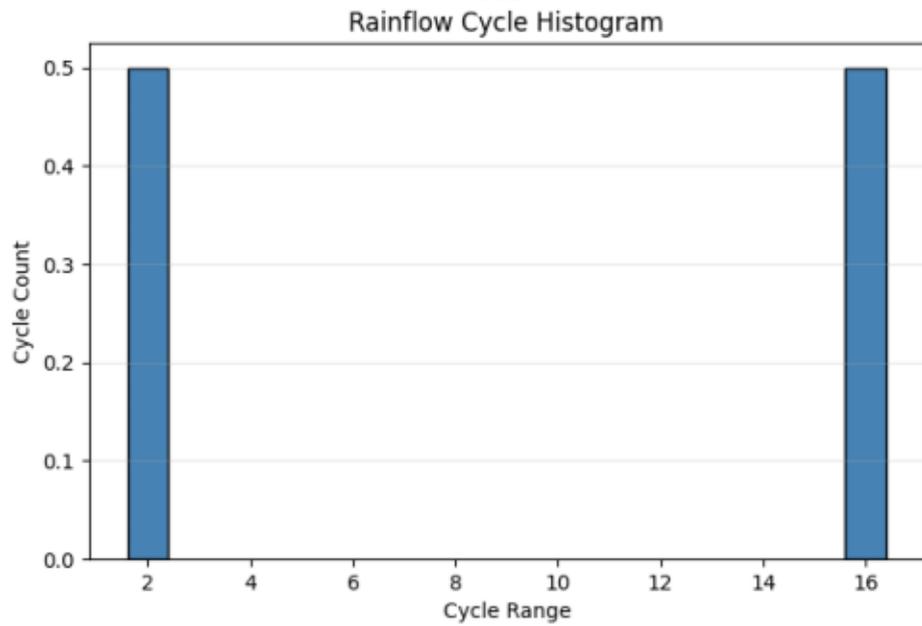
Algorithm Status

X = 10 Y = 24



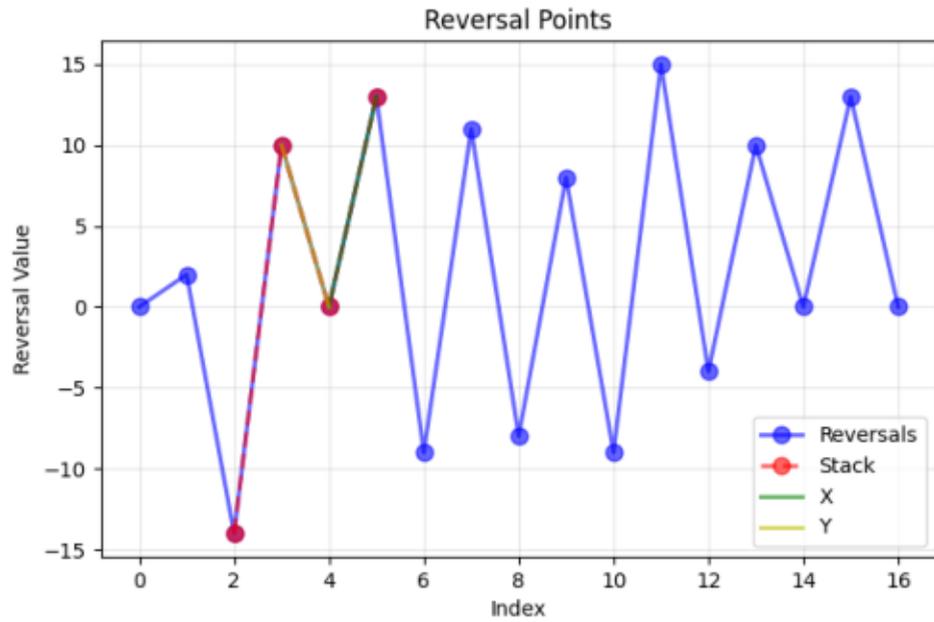
Current Stack

Stack = [-14, 10, 0]



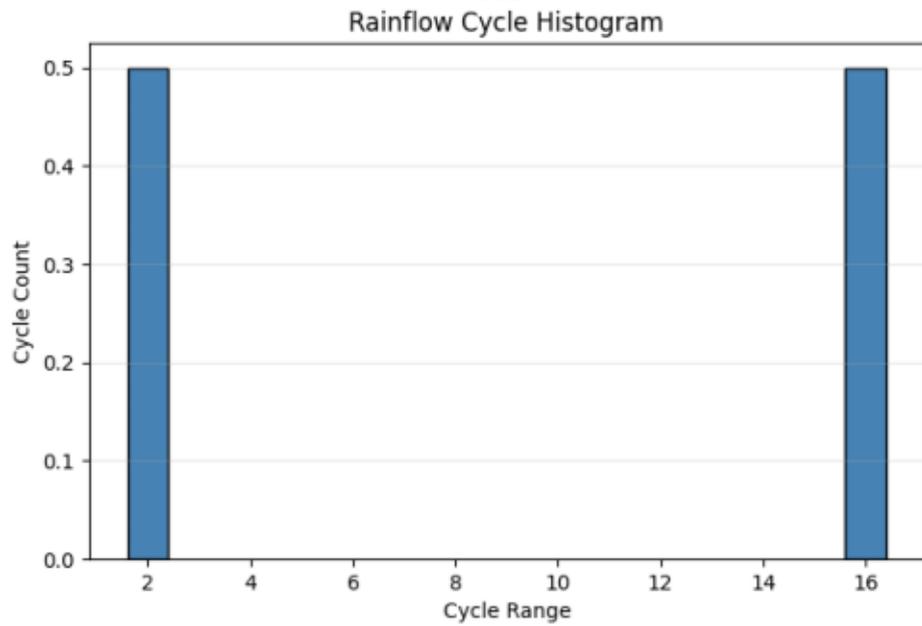
Algorithm Status

X = 10 Y = 24: X < Y, back to step 1 (add a point)



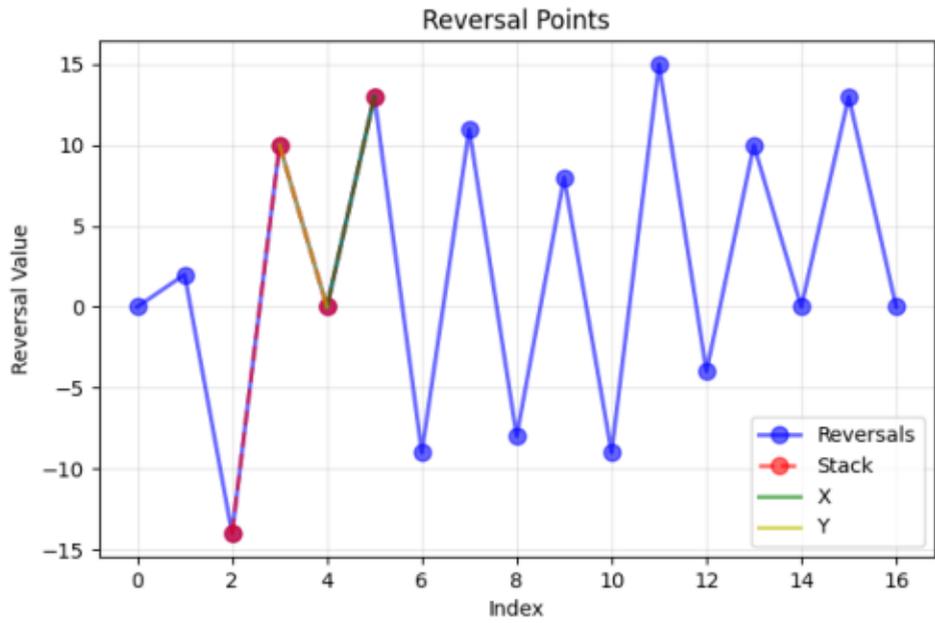
Current Stack

Stack = [-14, 10, 0, 13]



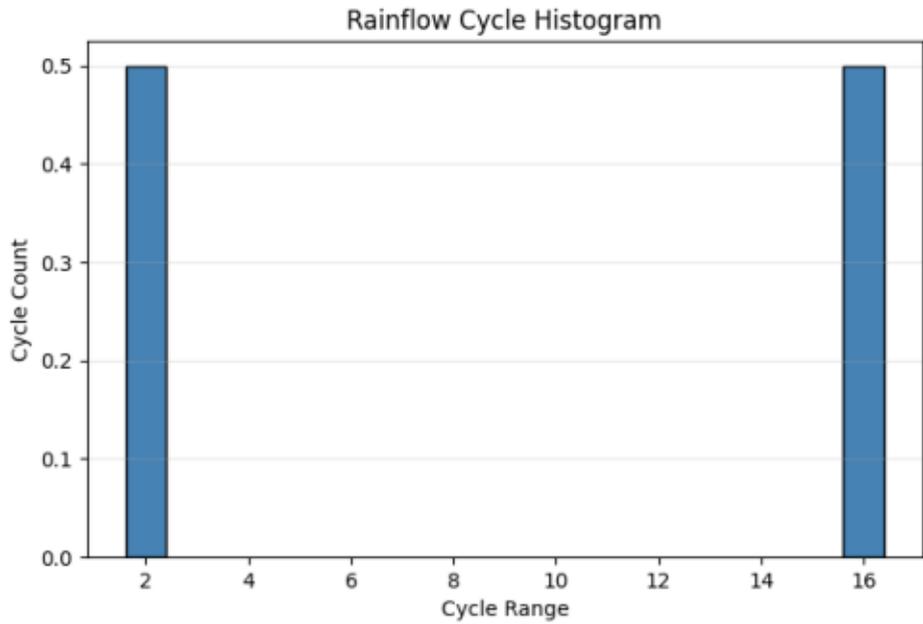
Algorithm Status

X = 13 Y = 10



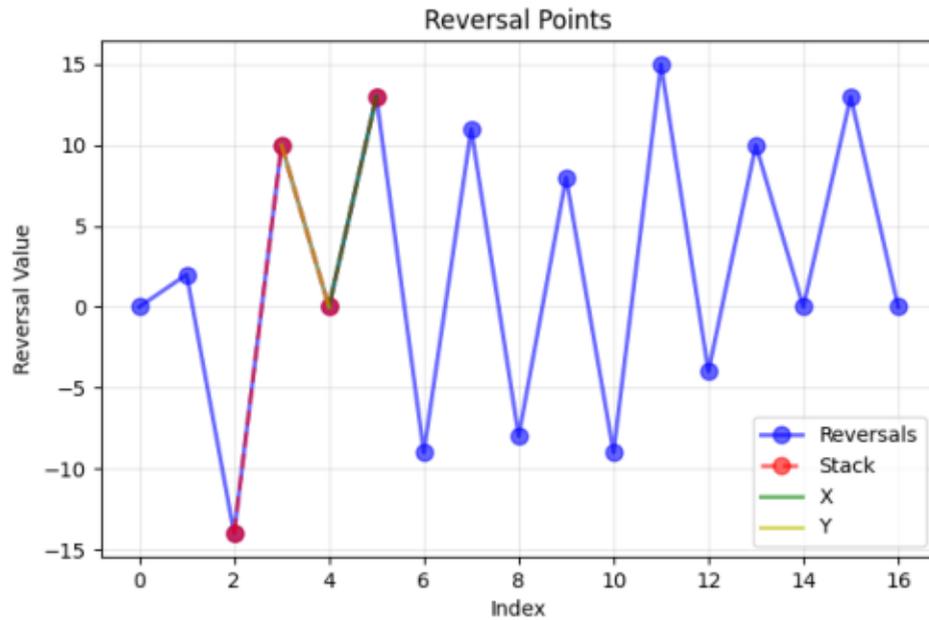
Current Stack

Stack = [-14, 10, 0, 13]



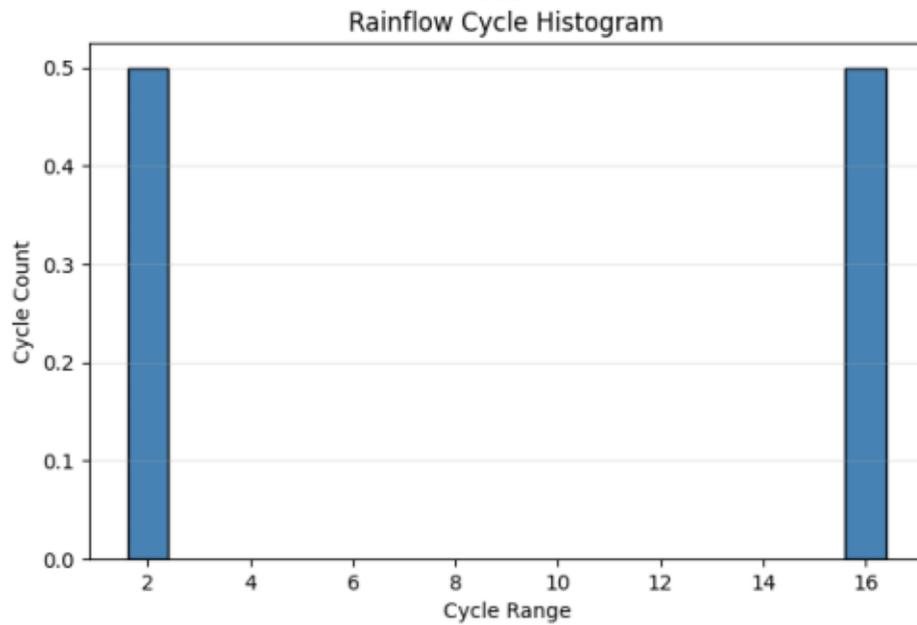
Algorithm Status

X = 13 Y = 10: X >= Y



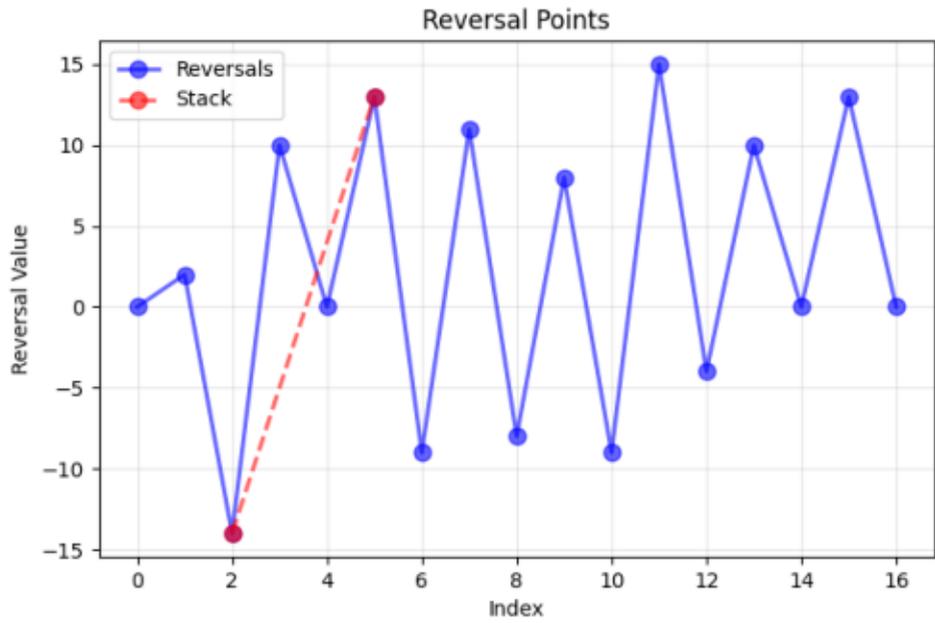
Current Stack

Stack = [-14, 10, 0, 13]



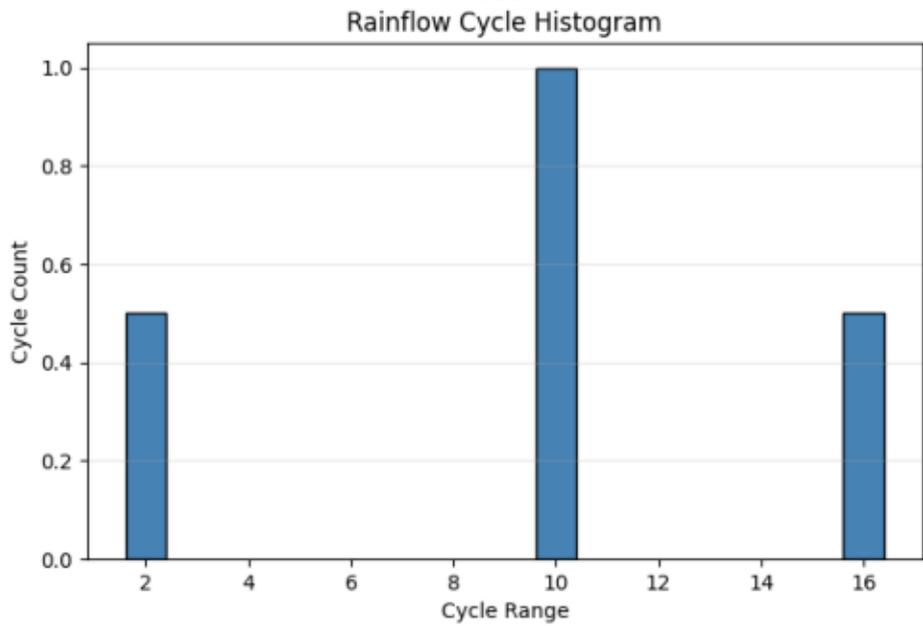
Algorithm Status

First point in Y is not starting point, count Y = 10 as a full cycle and remove points from Y from stack



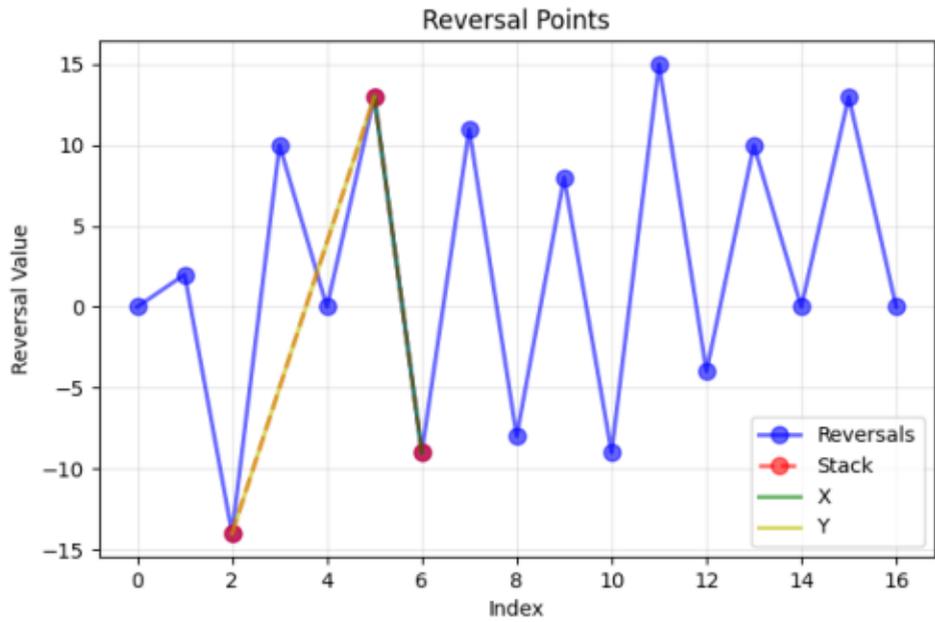
Current Stack

Stack = [-14, 13]



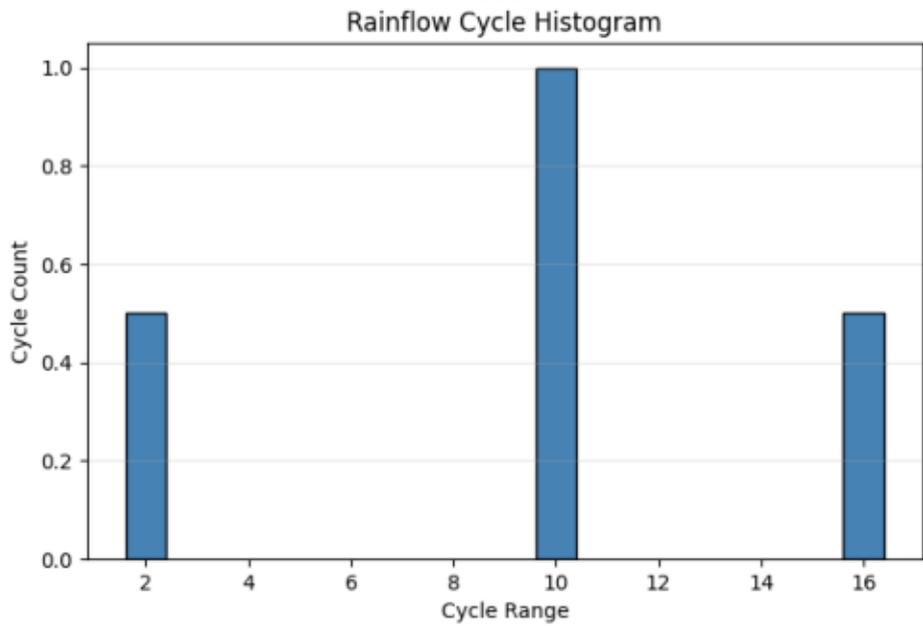
Algorithm Status

Y points removed from stack



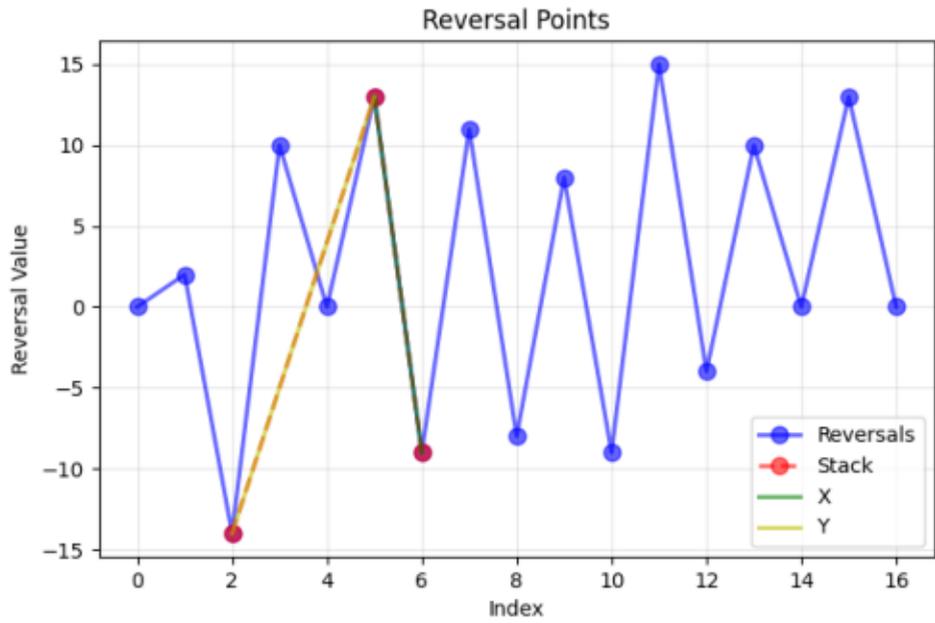
Current Stack

Stack = [-14, 13, -9]



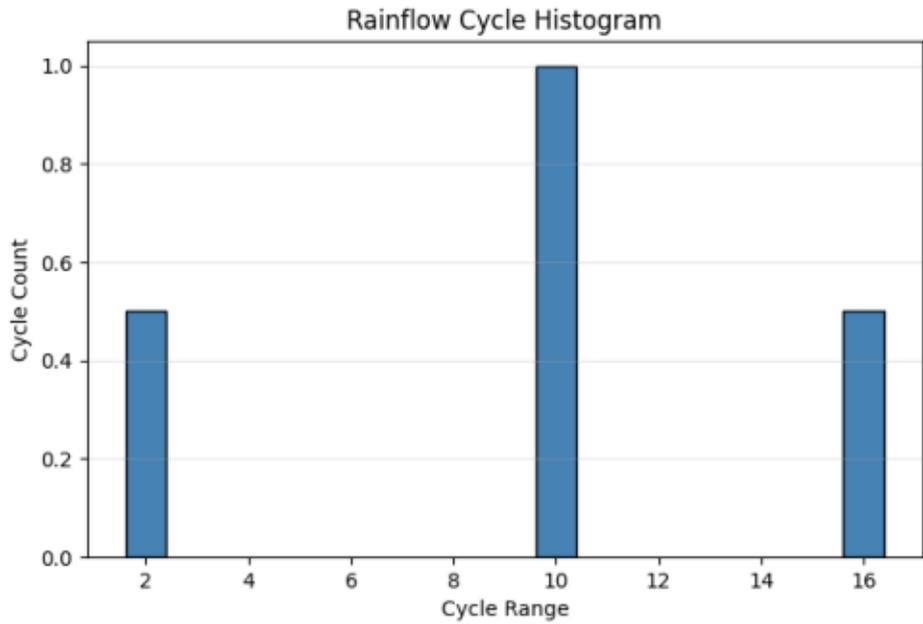
Algorithm Status

X = 22 Y = 27



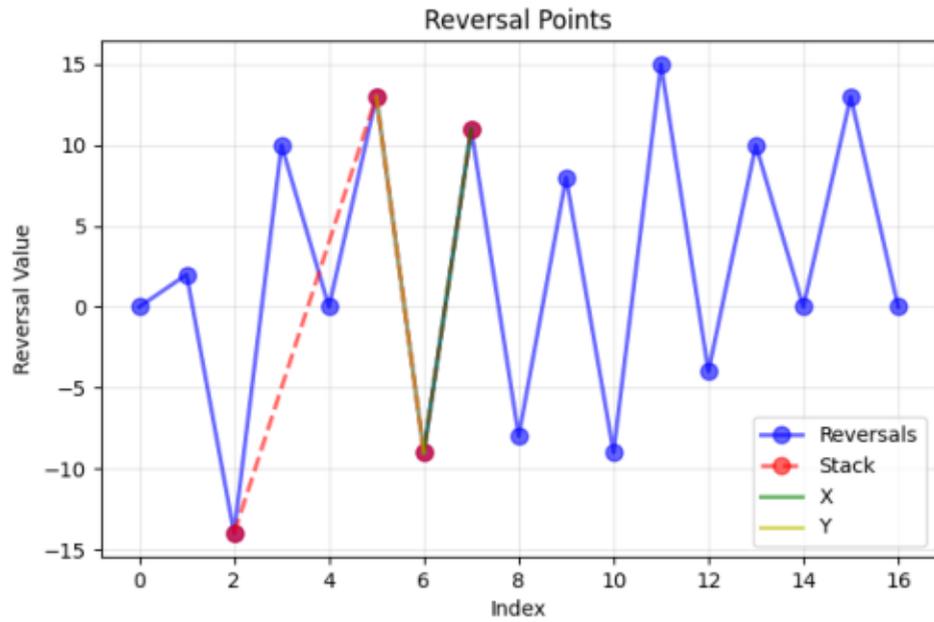
Current Stack

Stack = [-14, 13, -9]



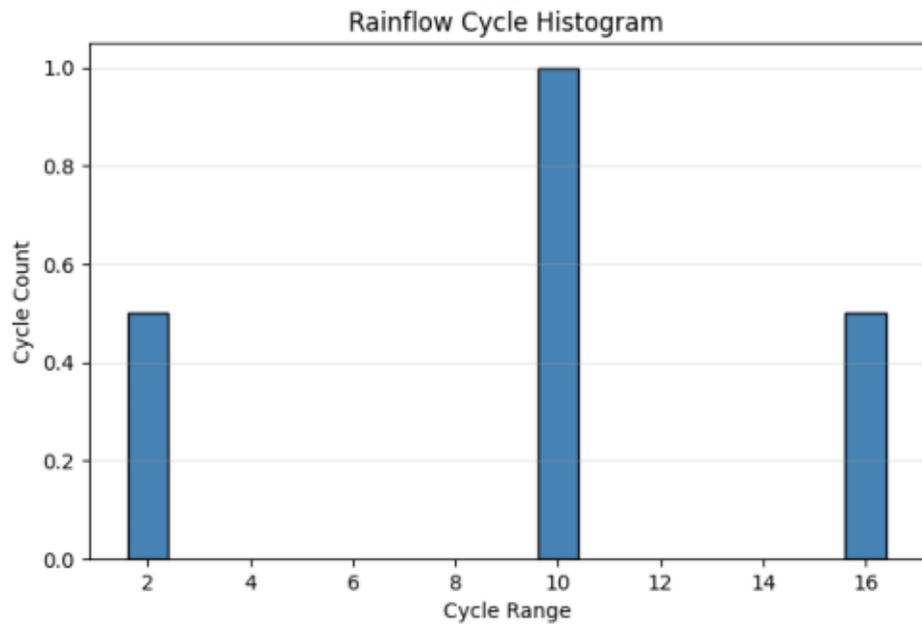
Algorithm Status

X = 22 Y = 27: X < Y, back to step 1 (add a point)



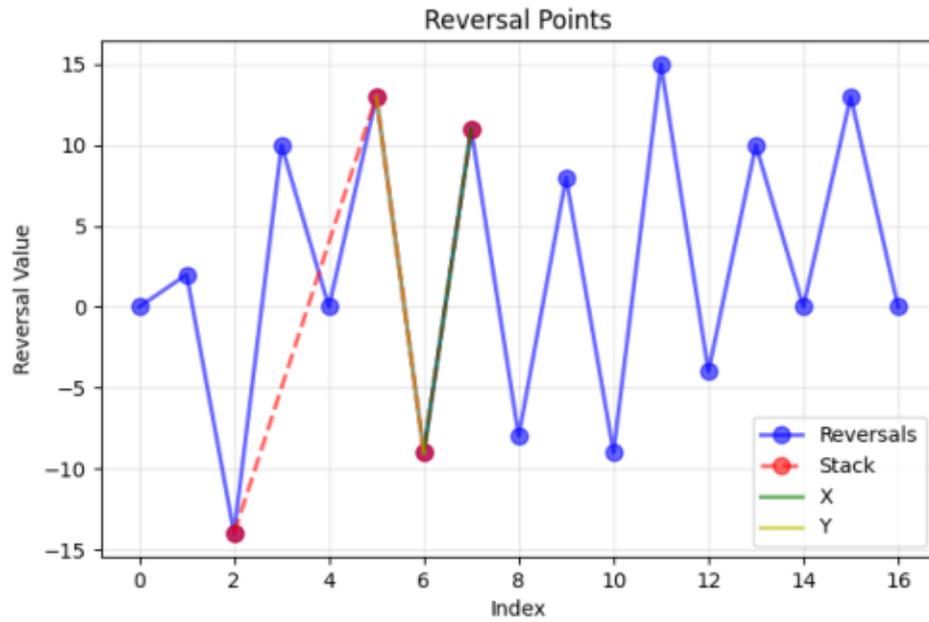
Current Stack

Stack = [-14, 13, -9, 11]



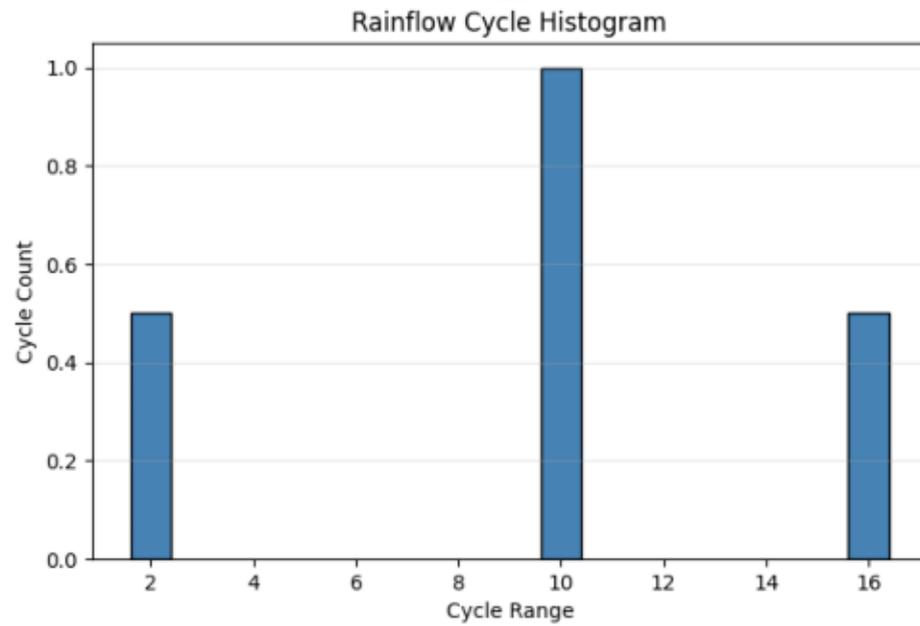
Algorithm Status

X = 20 Y = 22



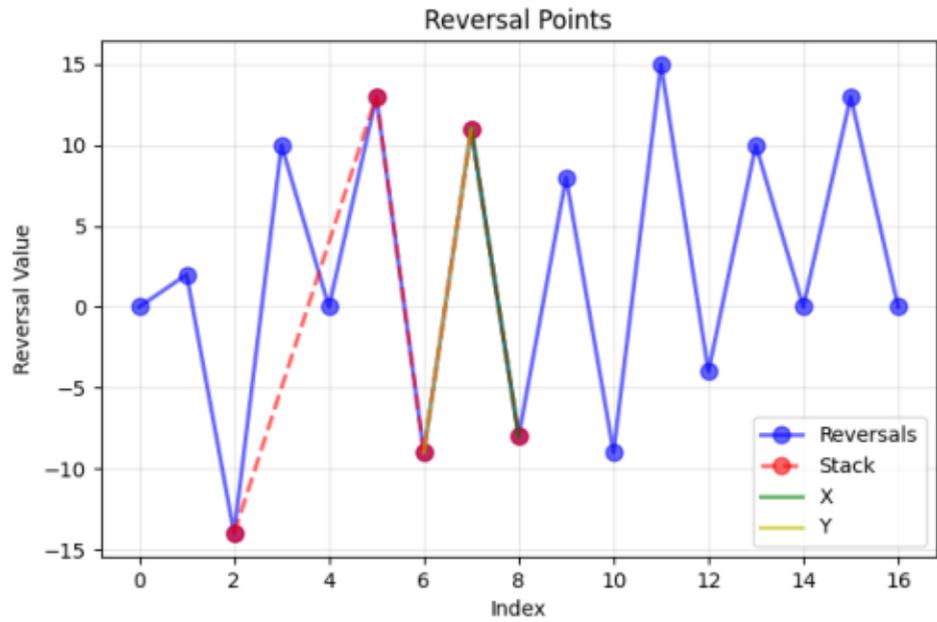
Current Stack

Stack = [-14, 13, -9, 11]



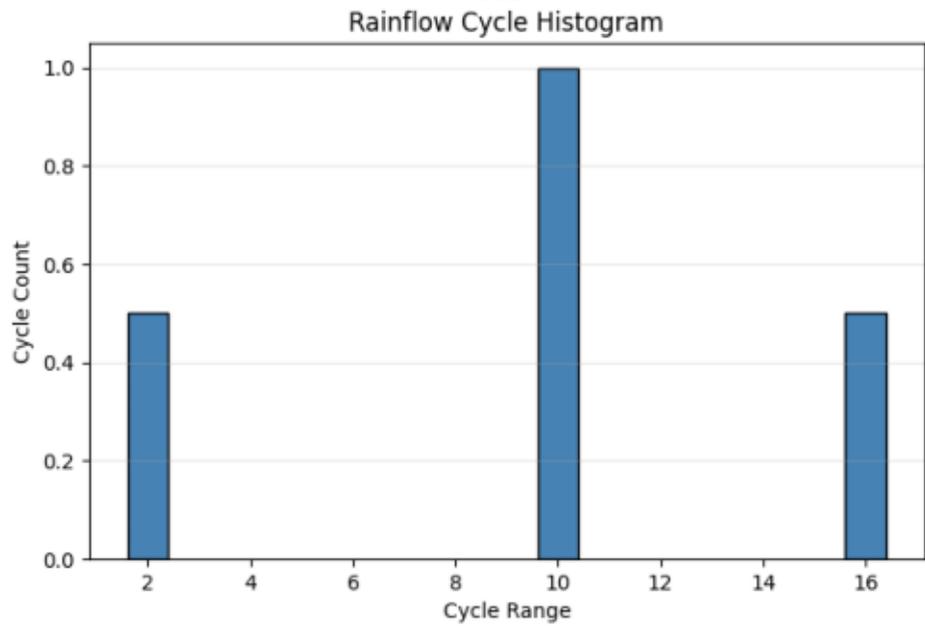
Algorithm Status

X = 20 Y = 22: X < Y, back to step 1 (add a point)



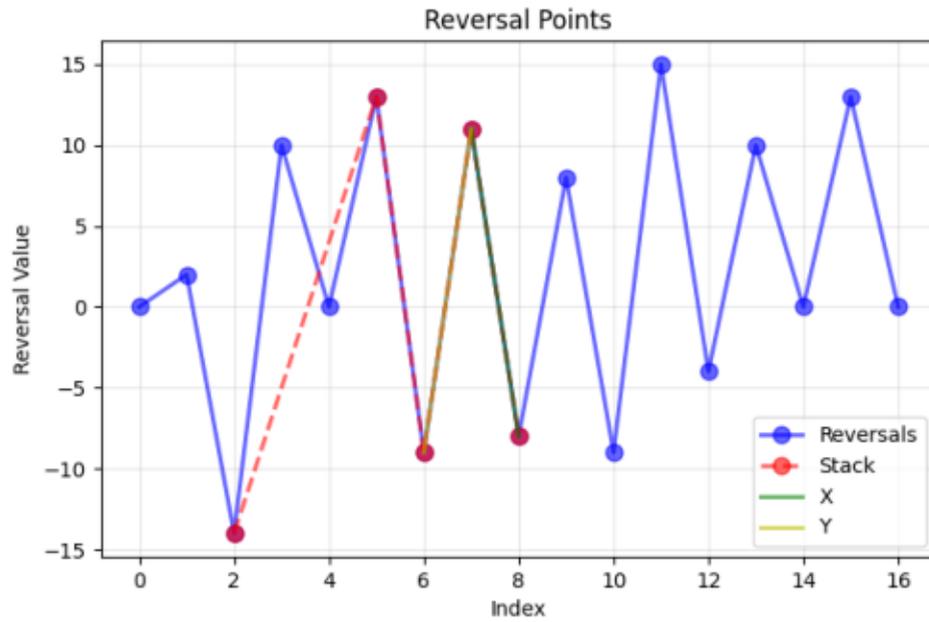
Current Stack

Stack = [-14, 13, -9, 11, -8]



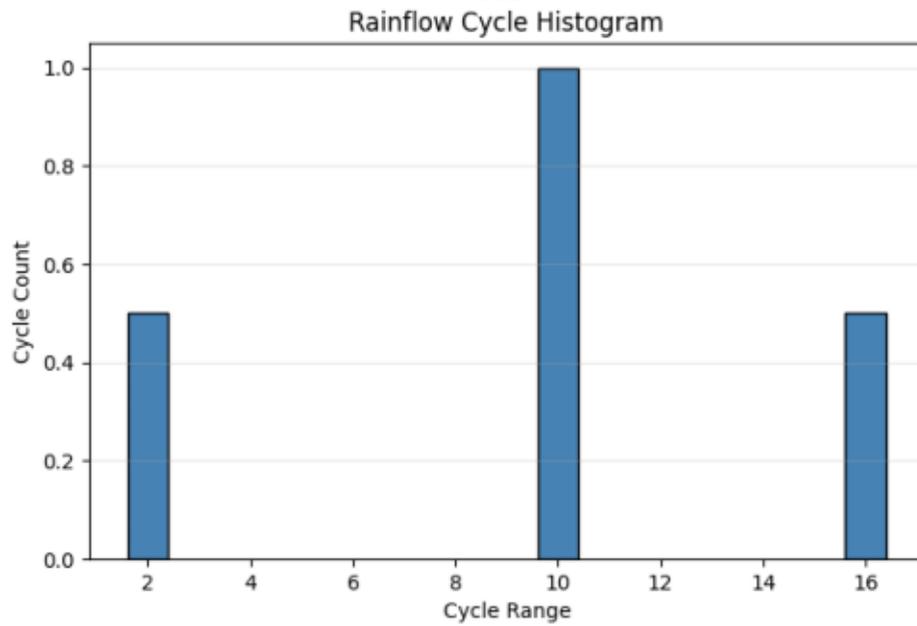
Algorithm Status

X = 19 Y = 20



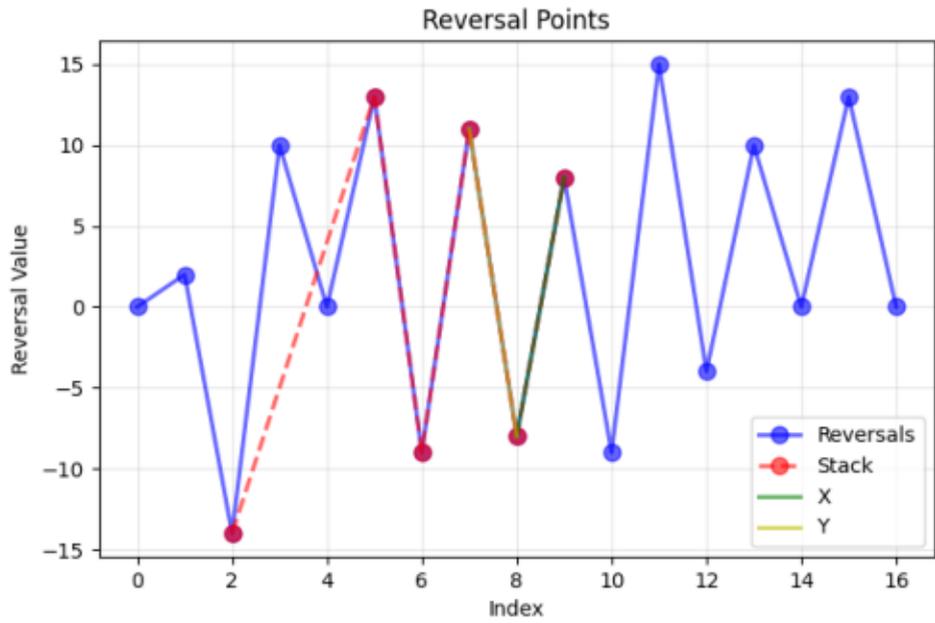
Current Stack

Stack = [-14, 13, -9, 11, -8]



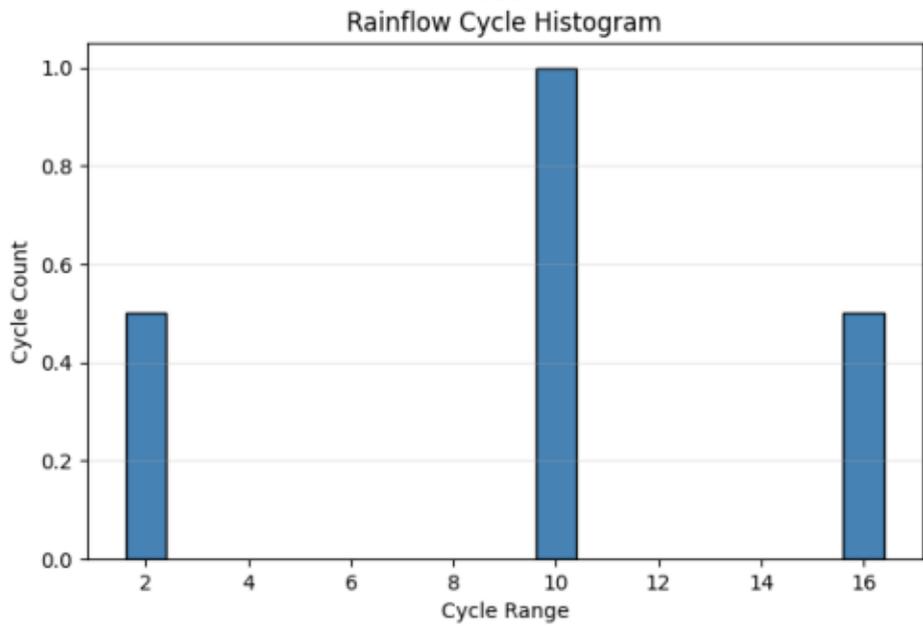
Algorithm Status

X = 19 Y = 20: X < Y, back to step 1 (add a point)



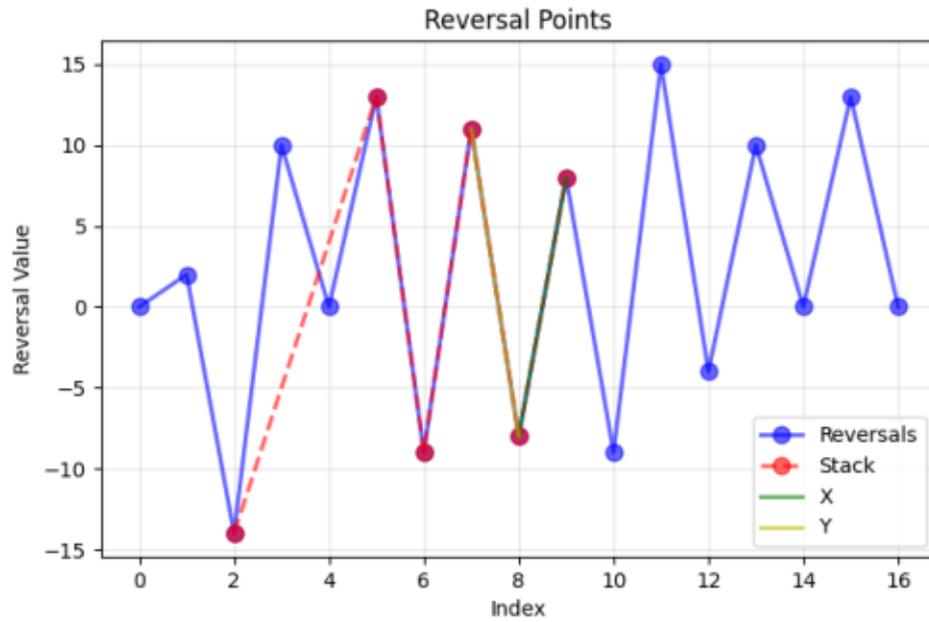
Current Stack

Stack = [-14, 13, -9, 11, -8, 8]



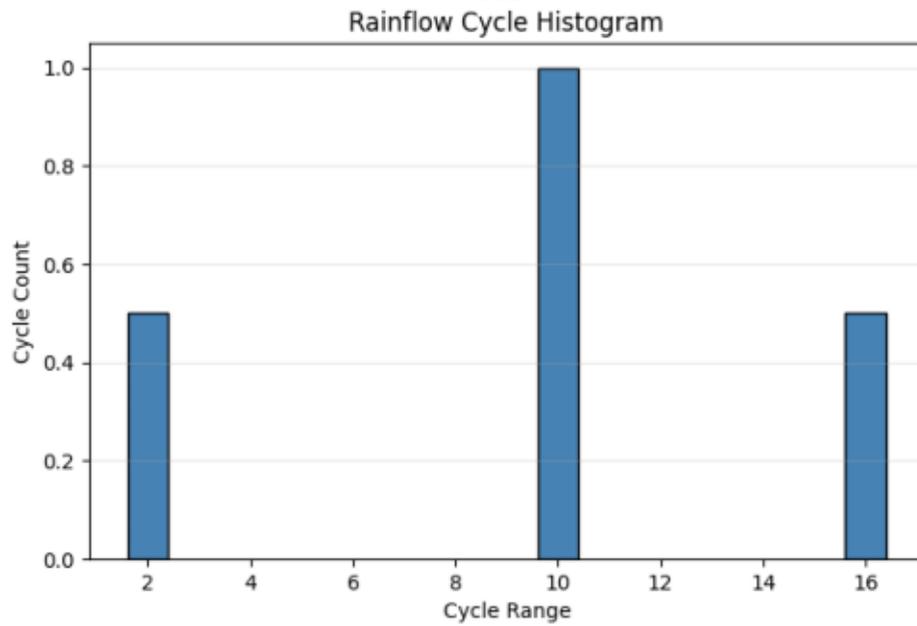
Algorithm Status

X = 16 Y = 19



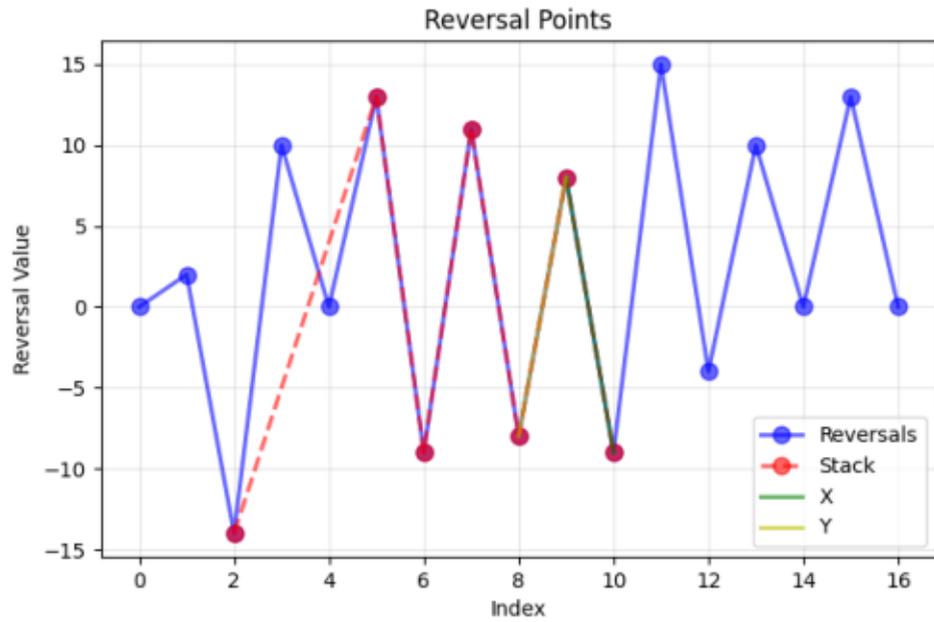
Current Stack

Stack = [-14, 13, -9, 11, -8, 8]



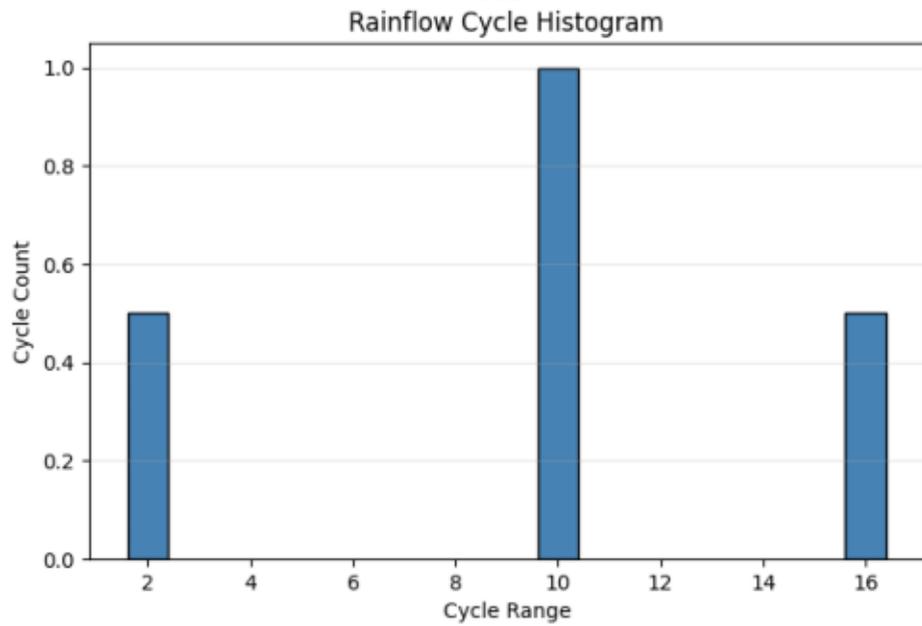
Algorithm Status

X = 16 Y = 19: X < Y, back to step 1 (add a point)



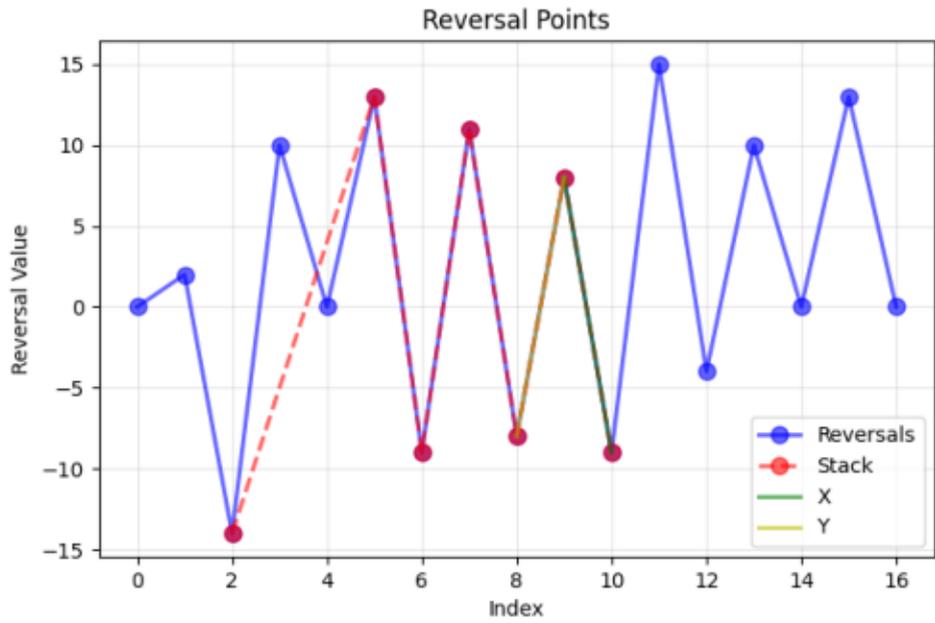
Current Stack

Stack = [-14, 13, -9, 11, -8, 8, -9]



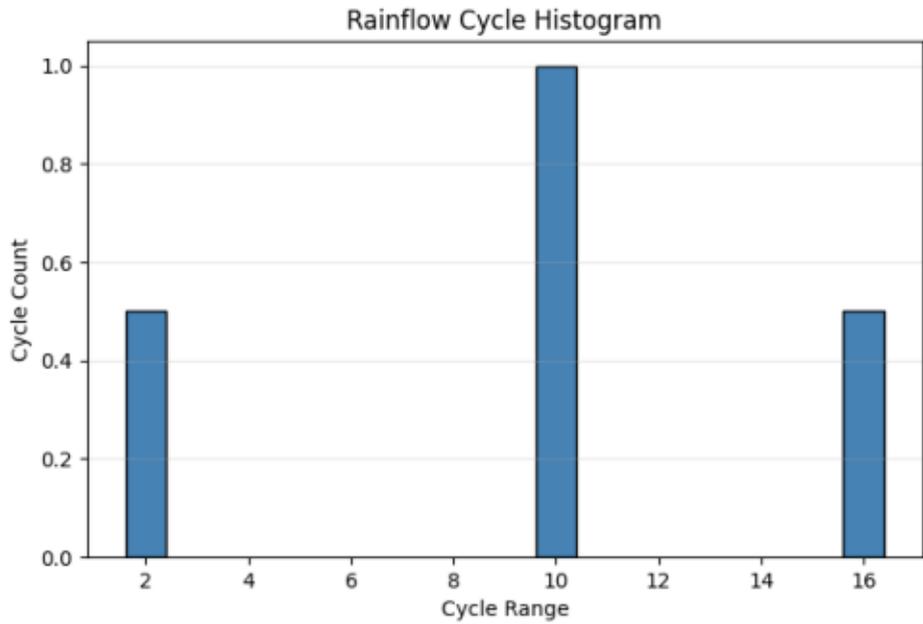
Algorithm Status

X = 17 Y = 16



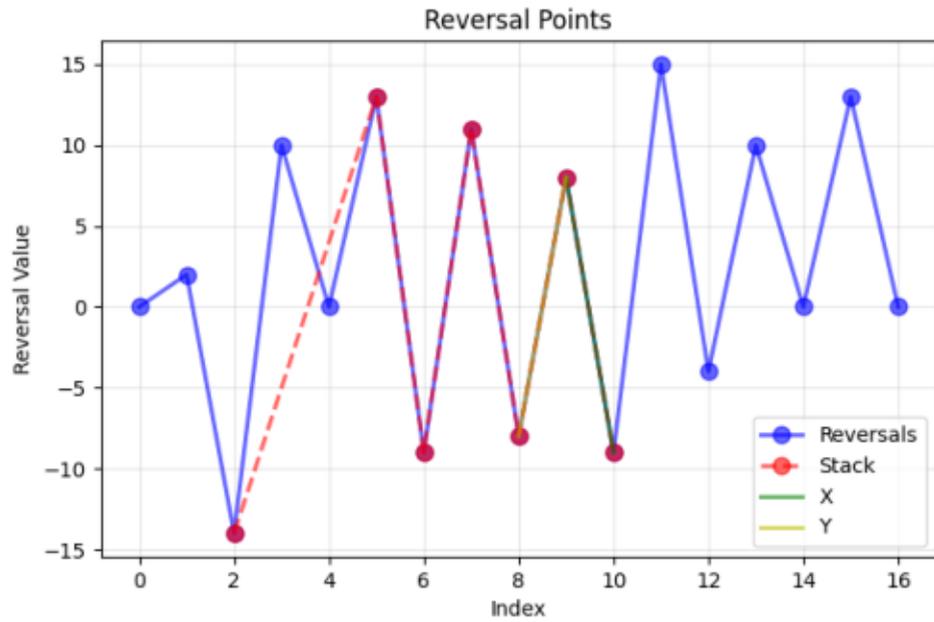
Current Stack

Stack = [-14, 13, -9, 11, -8, 8, -9]



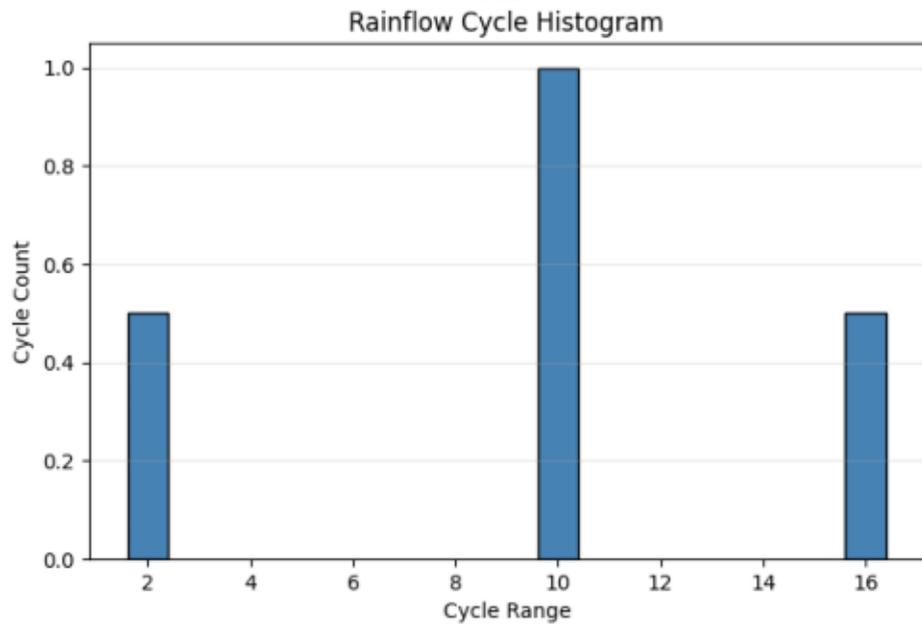
Algorithm Status

X = 17 Y = 16: X >= Y



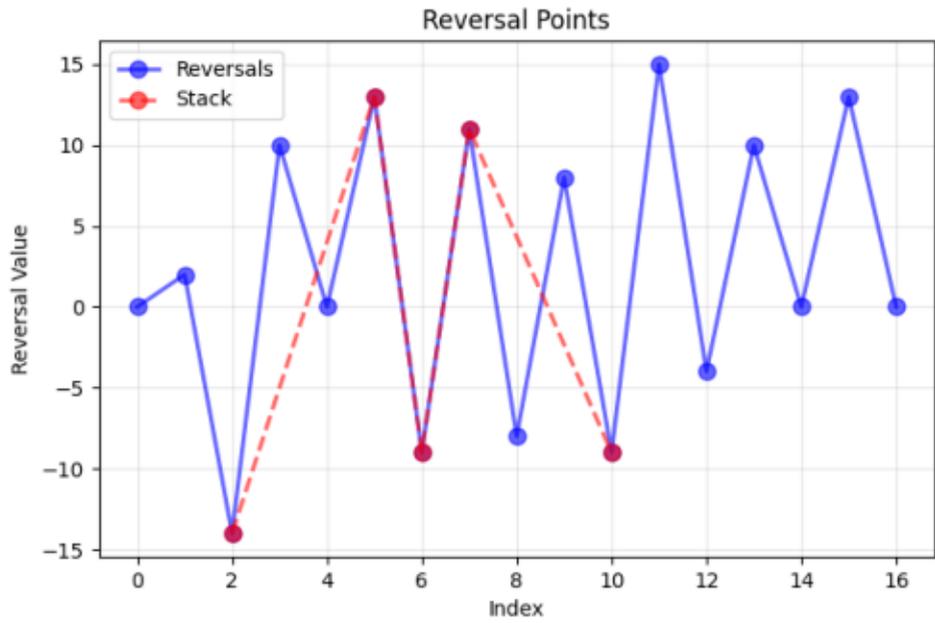
Current Stack

Stack = [-14, 13, -9, 11, -8, 8, -9]



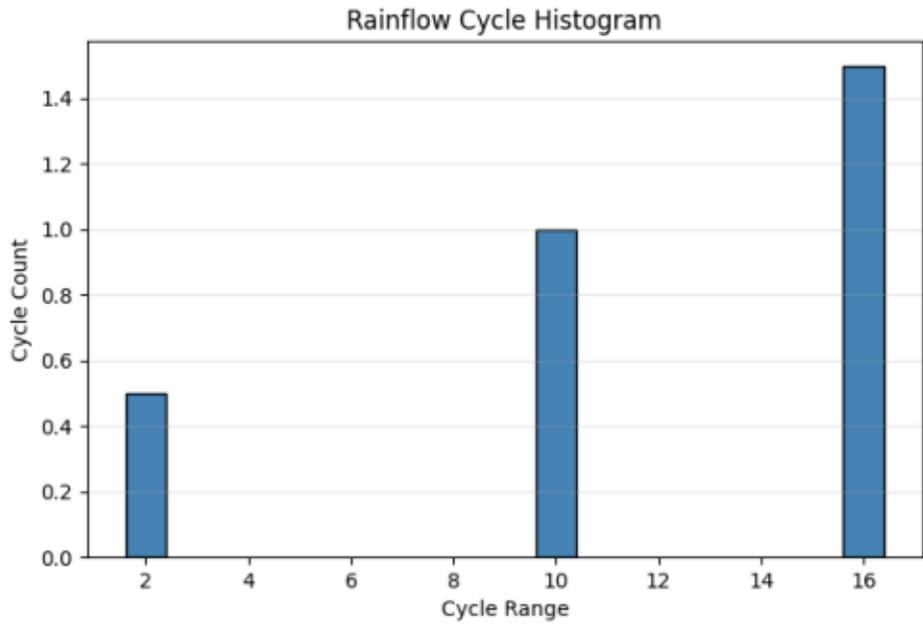
Algorithm Status

First point in Y is not starting point, count Y = 16 as a full cycle and remove points from Y from stack



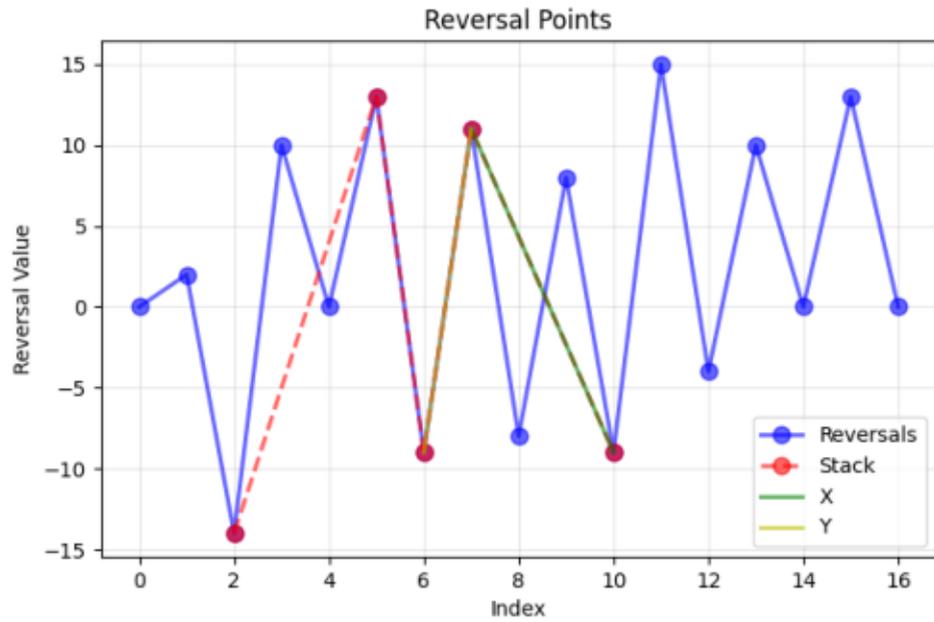
Current Stack

Stack = [-14, 13, -9, 11, -9]



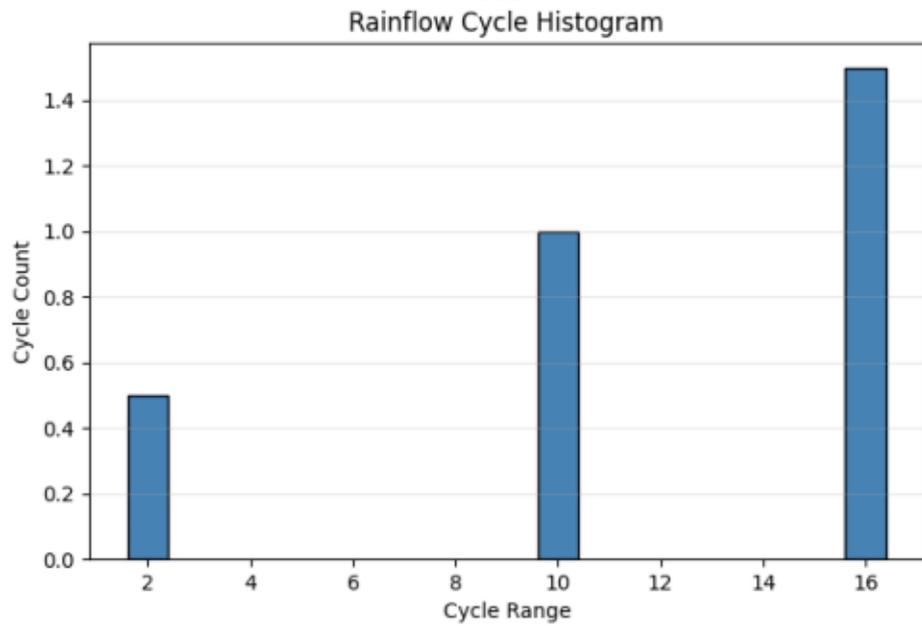
Algorithm Status

Y points removed from stack



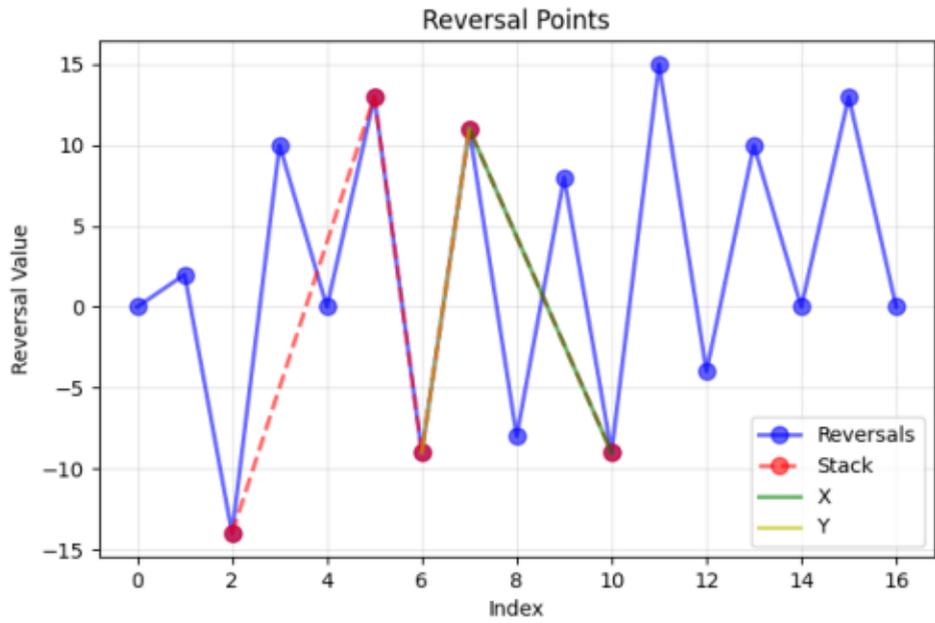
Current Stack

Stack = [-14, 13, -9, 11, -9]



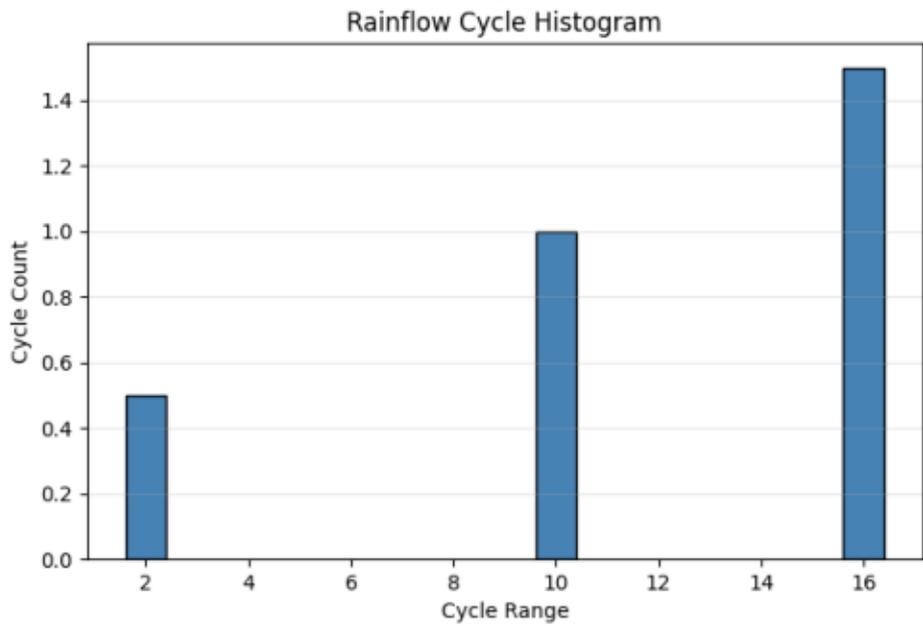
Algorithm Status

X = 20 Y = 20



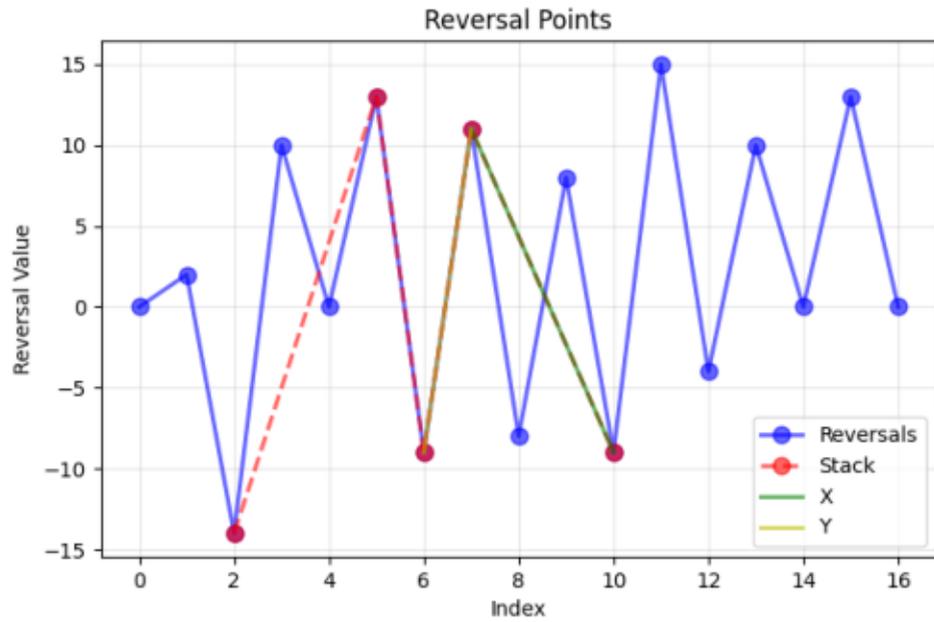
Current Stack

Stack = [-14, 13, -9, 11, -9]



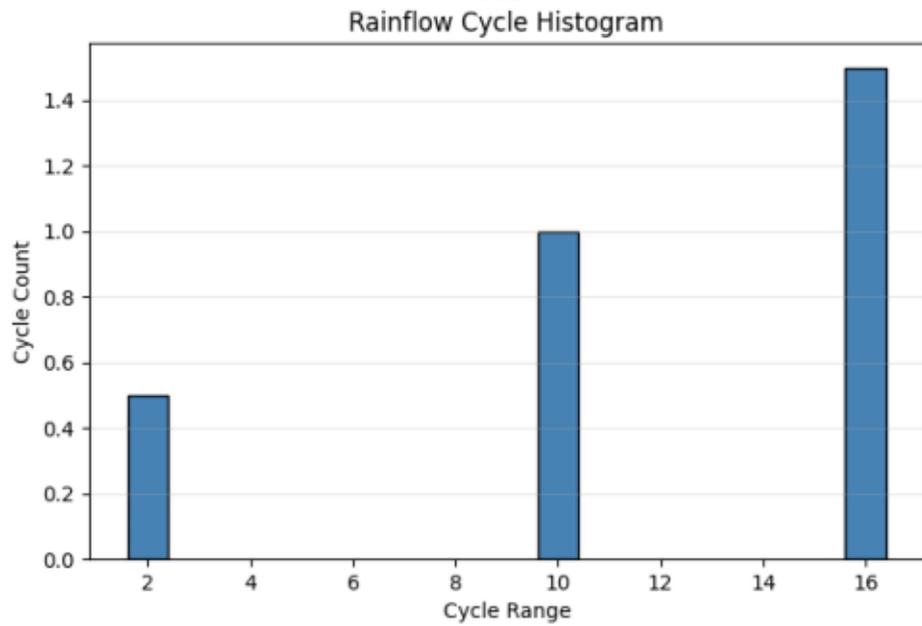
Algorithm Status

X = 20 Y = 20: X >= Y



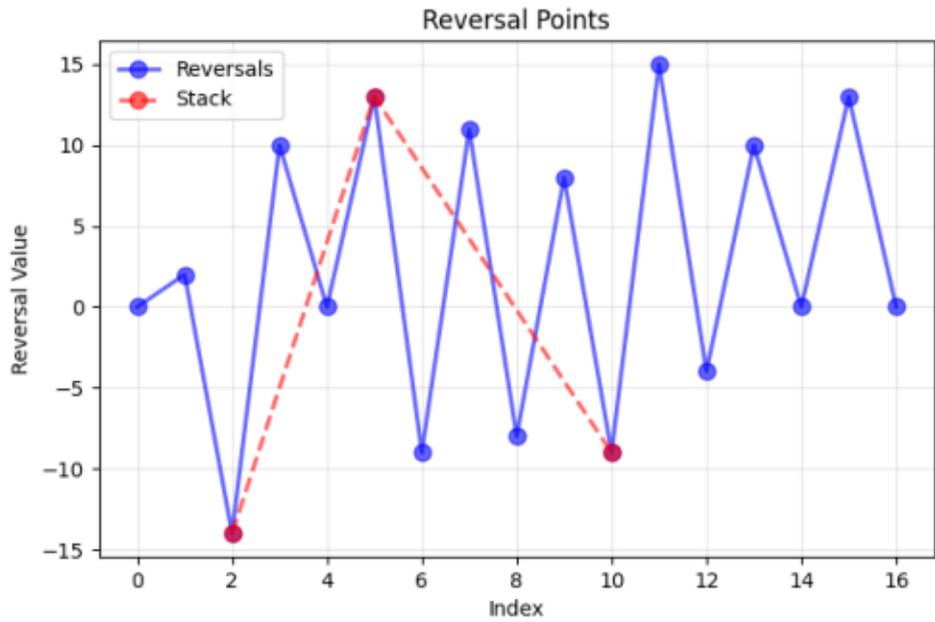
Current Stack

Stack = [-14, 13, -9, 11, -9]



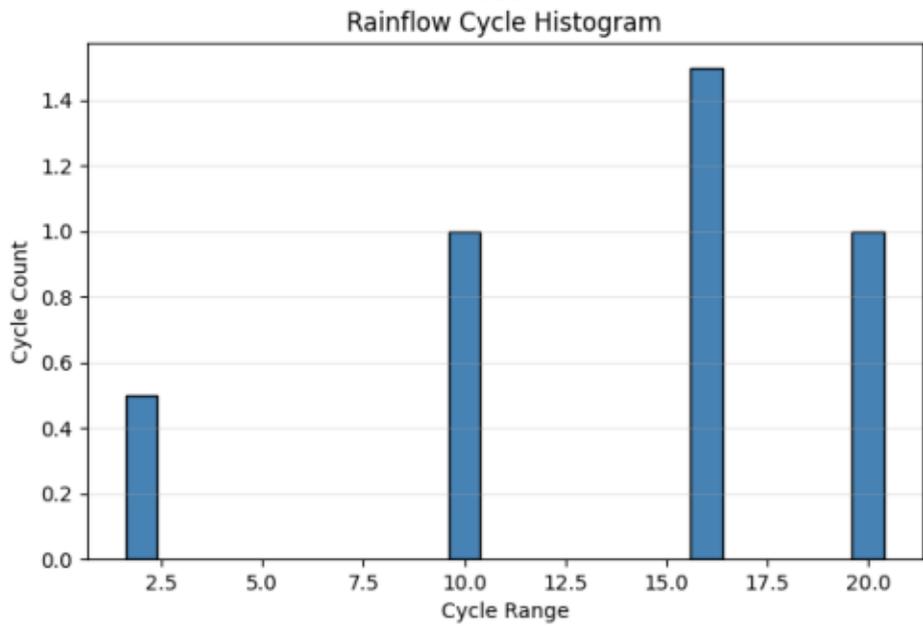
Algorithm Status

First point in Y is not starting point, count Y = 20 as a full cycle and remove points from Y from stack



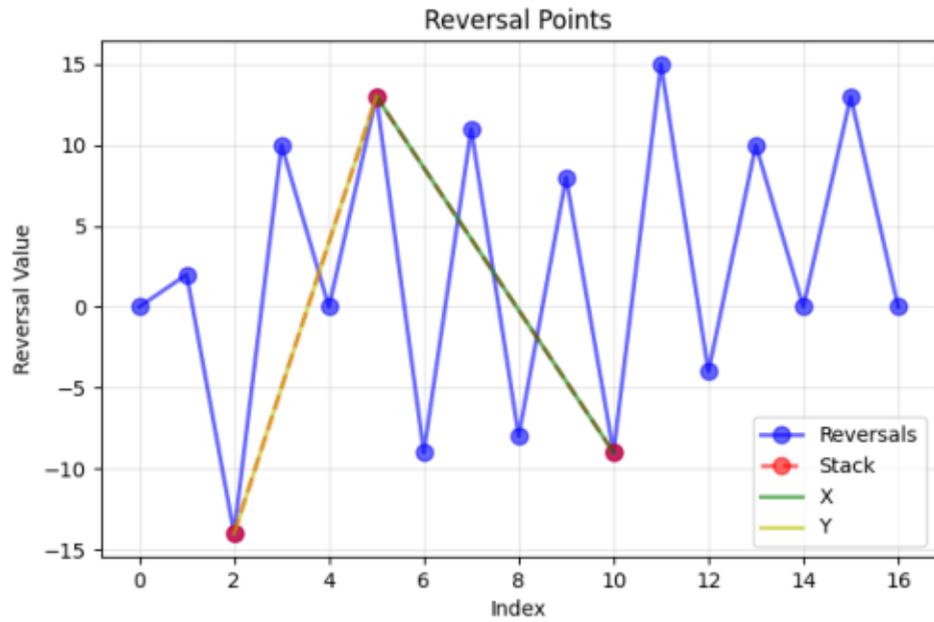
Current Stack

Stack = [-14, 13, -9]



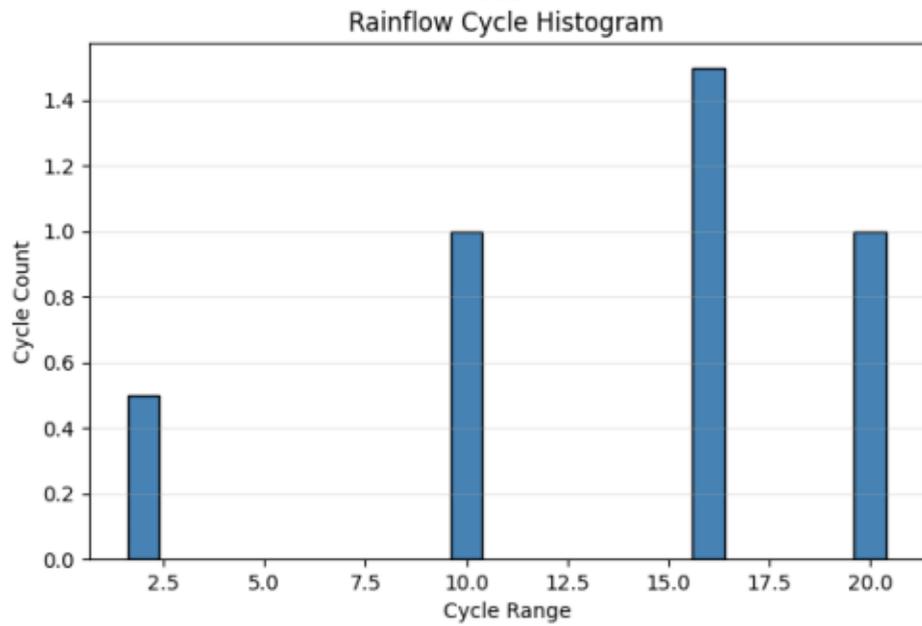
Algorithm Status

Y points removed from stack



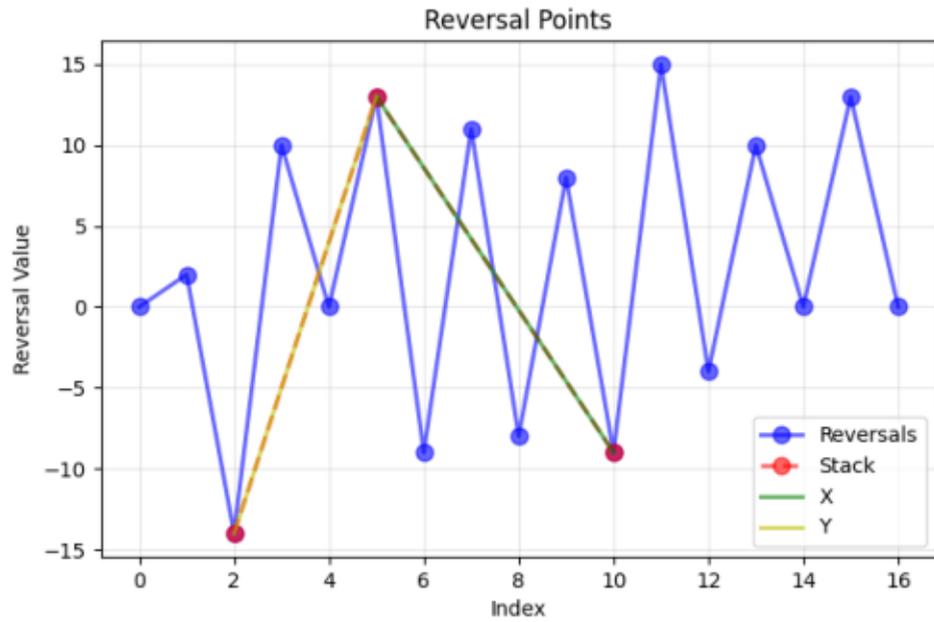
Current Stack

Stack = [-14, 13, -9]



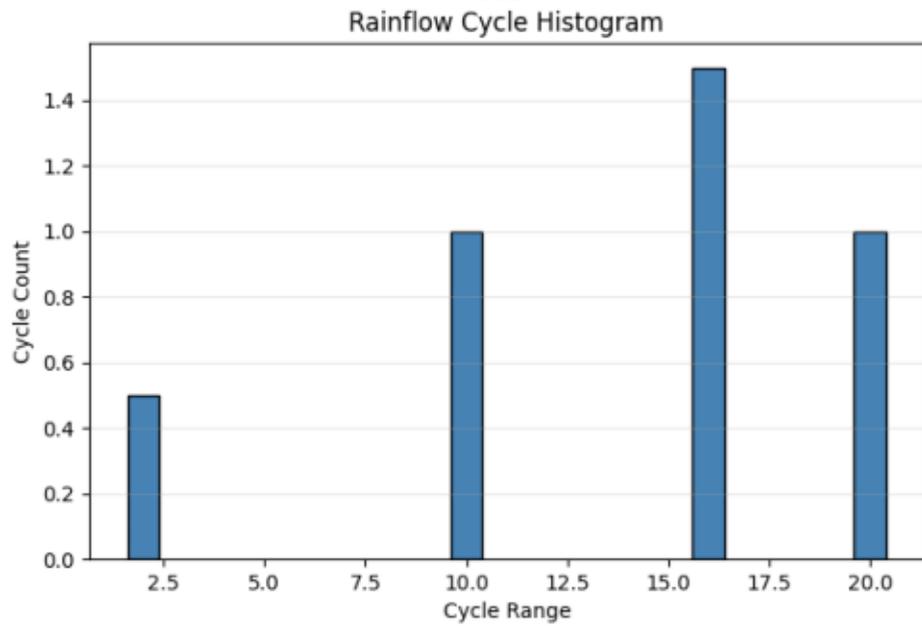
Algorithm Status

X = 22 Y = 27



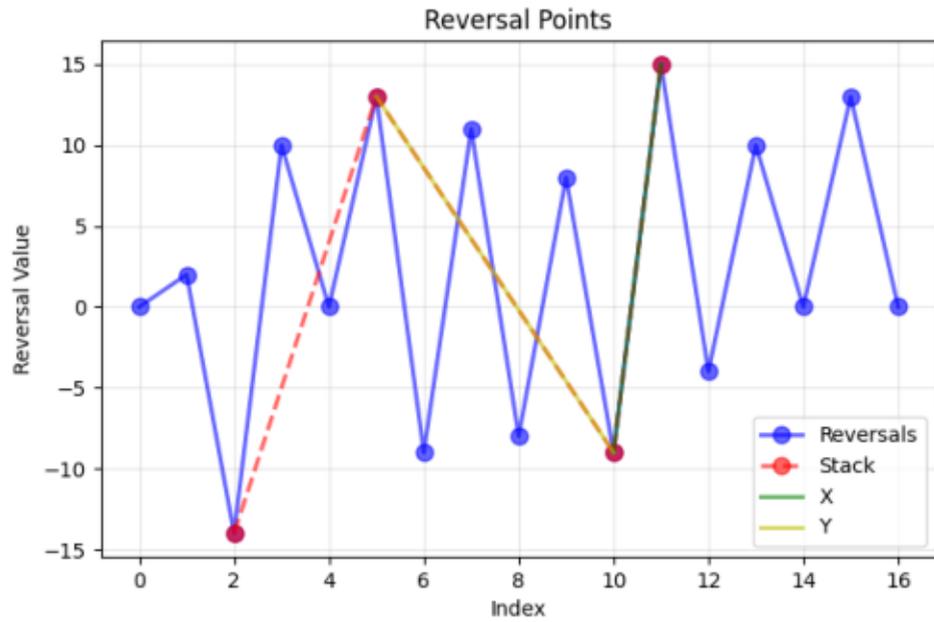
Current Stack

Stack = [-14, 13, -9]



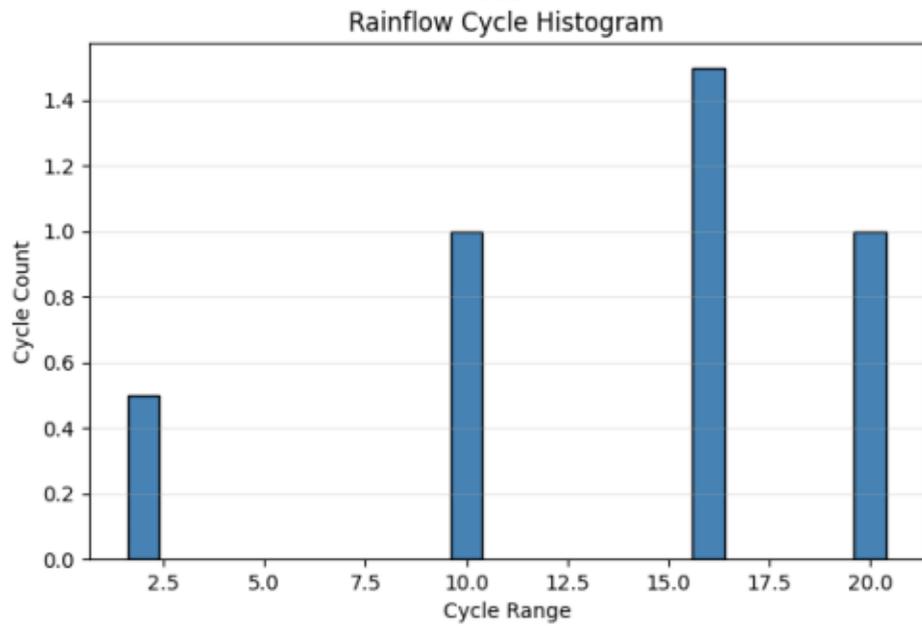
Algorithm Status

X = 22 Y = 27: X < Y, back to step 1 (add a point)



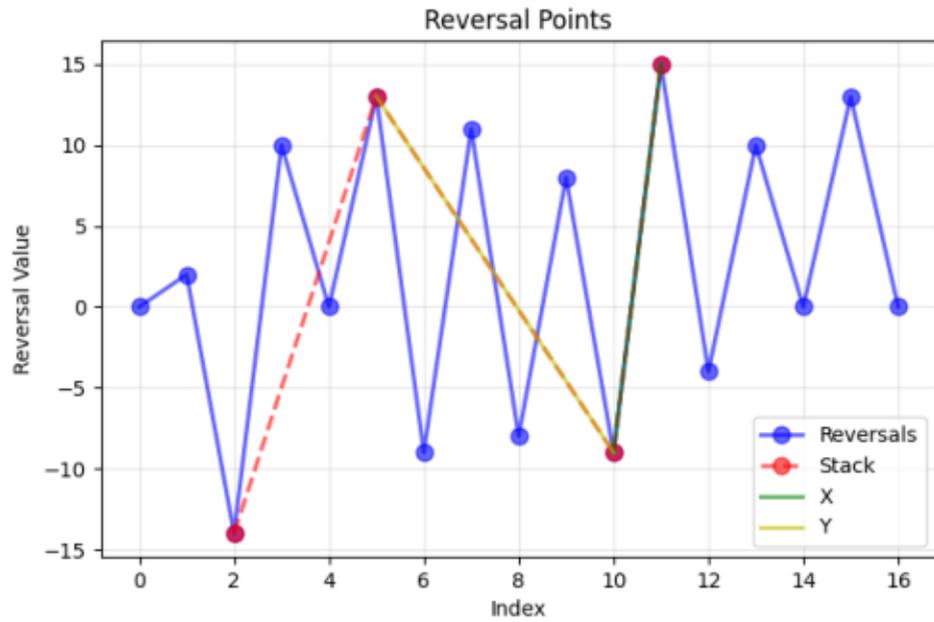
Current Stack

Stack = [-14, 13, -9, 15]



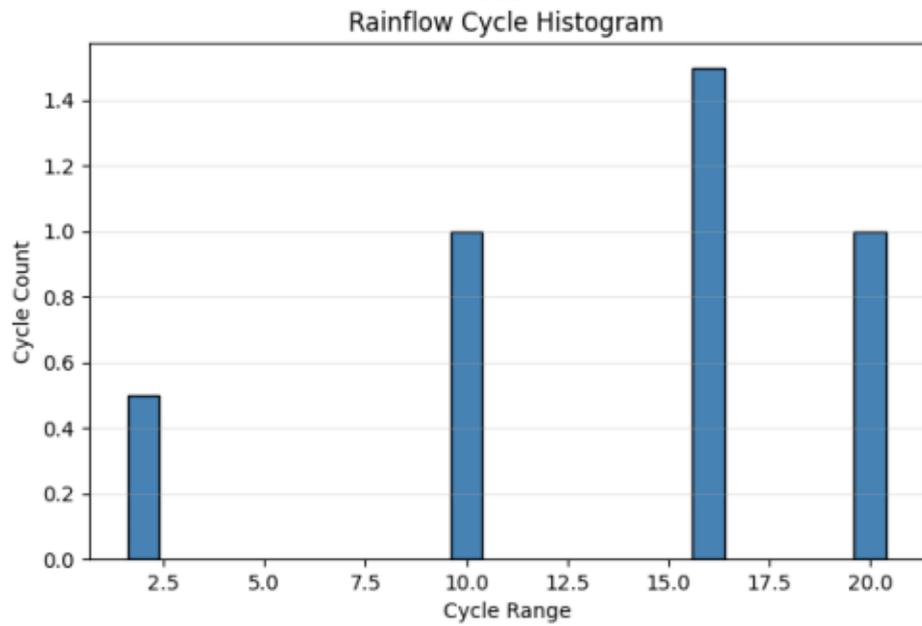
Algorithm Status

X = 24 Y = 22



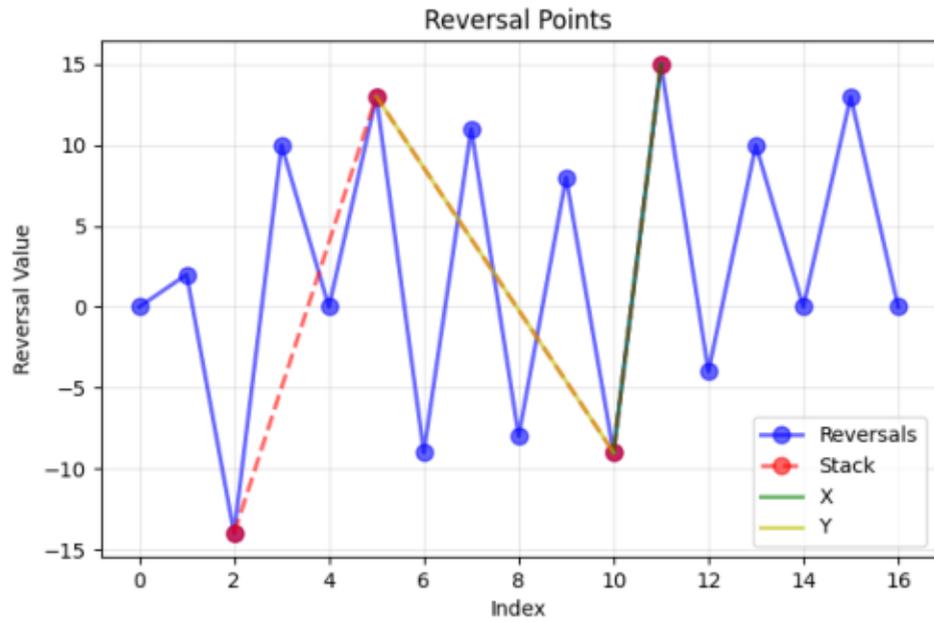
Current Stack

Stack = [-14, 13, -9, 15]



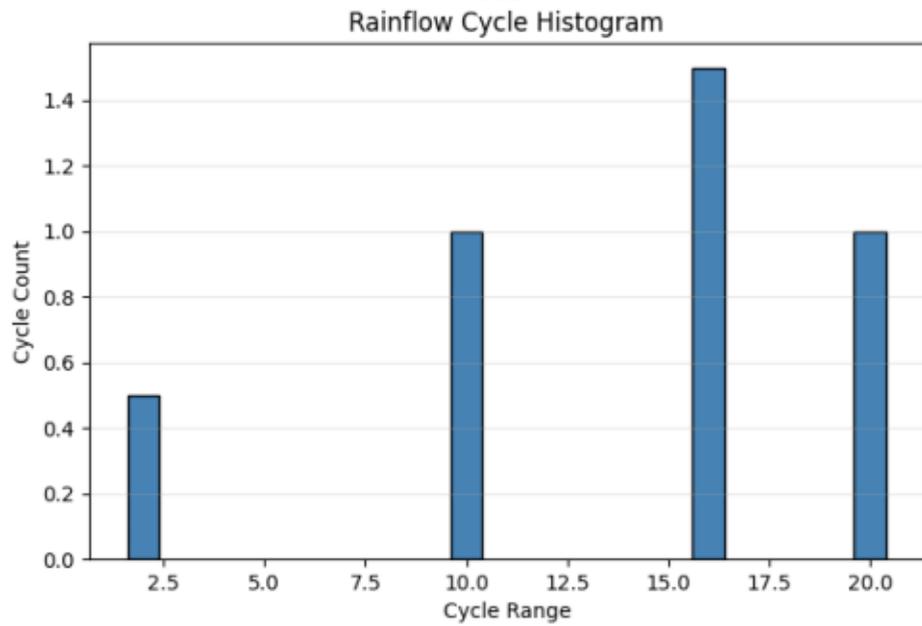
Algorithm Status

X = 24 Y = 22: X >= Y



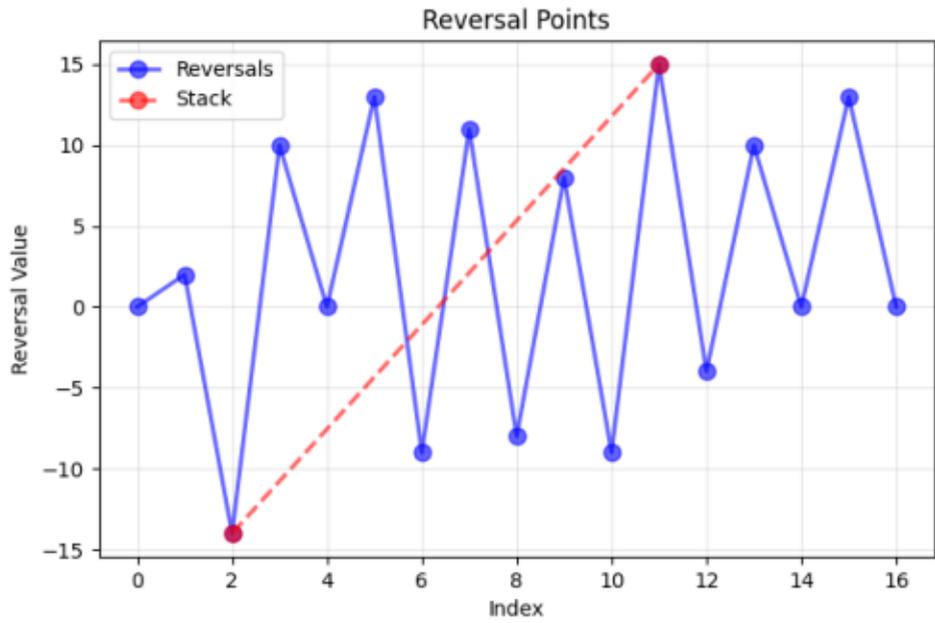
Current Stack

Stack = [-14, 13, -9, 15]



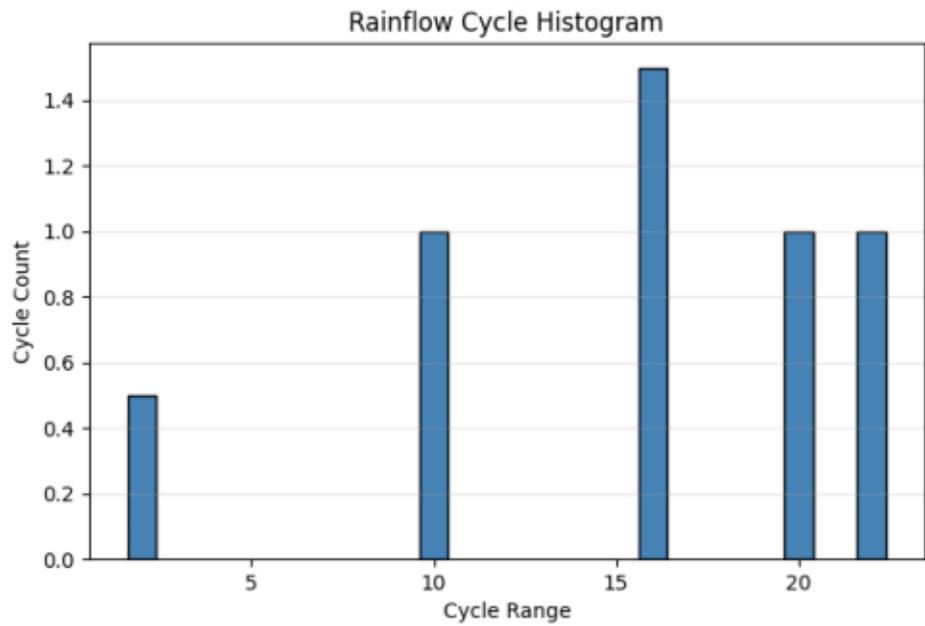
Algorithm Status

First point in Y is not starting point, count Y = 22 as a full cycle and remove points from Y from stack



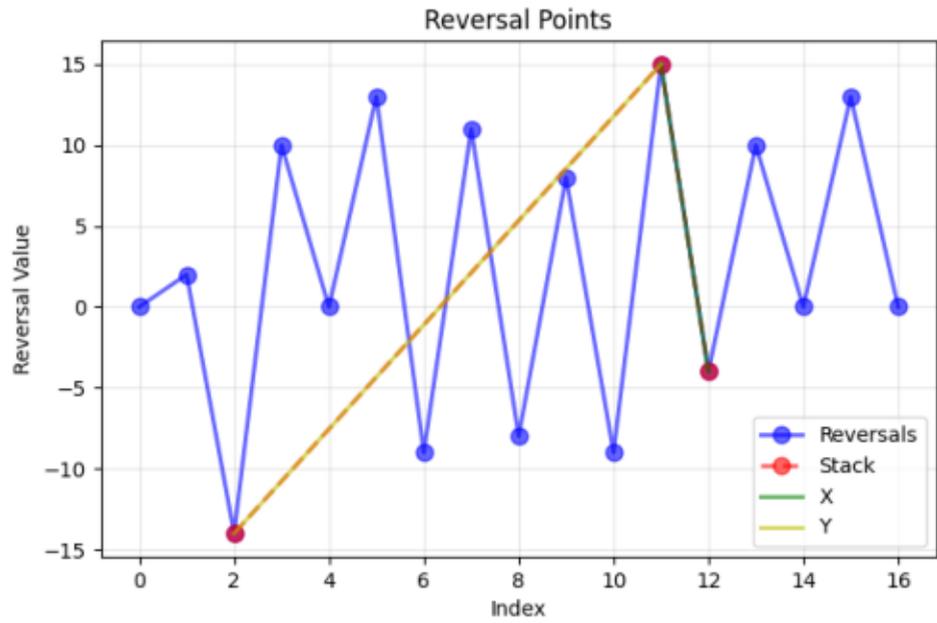
Current Stack

Stack = [-14, 15]



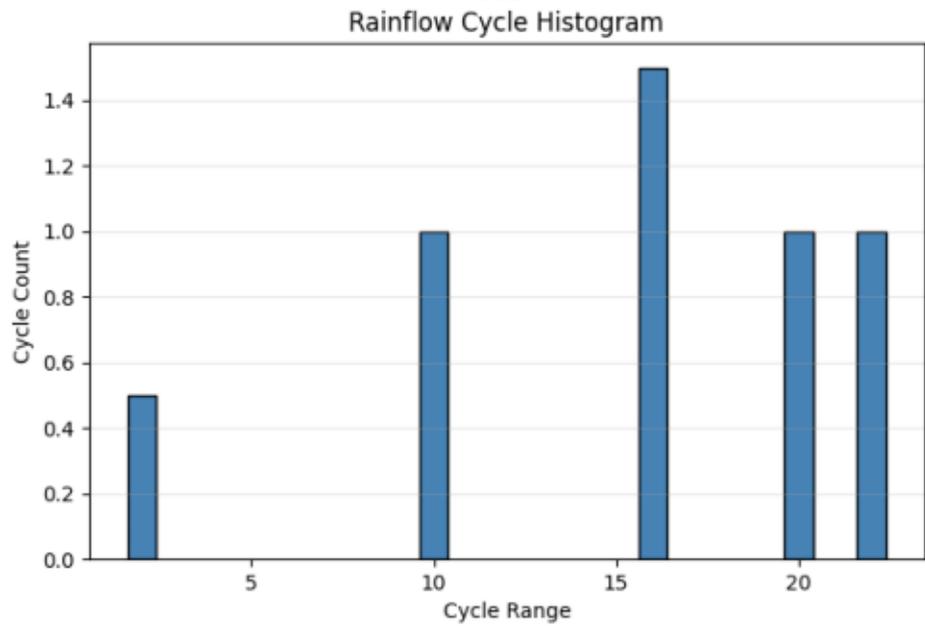
Algorithm Status

Y points removed from stack



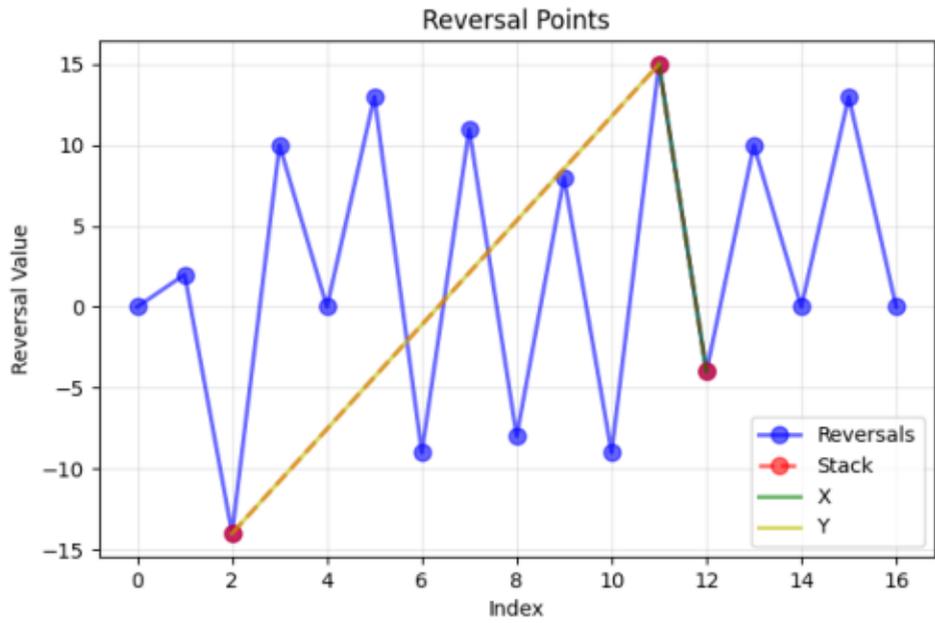
Current Stack

Stack = [-14, 15, -4]



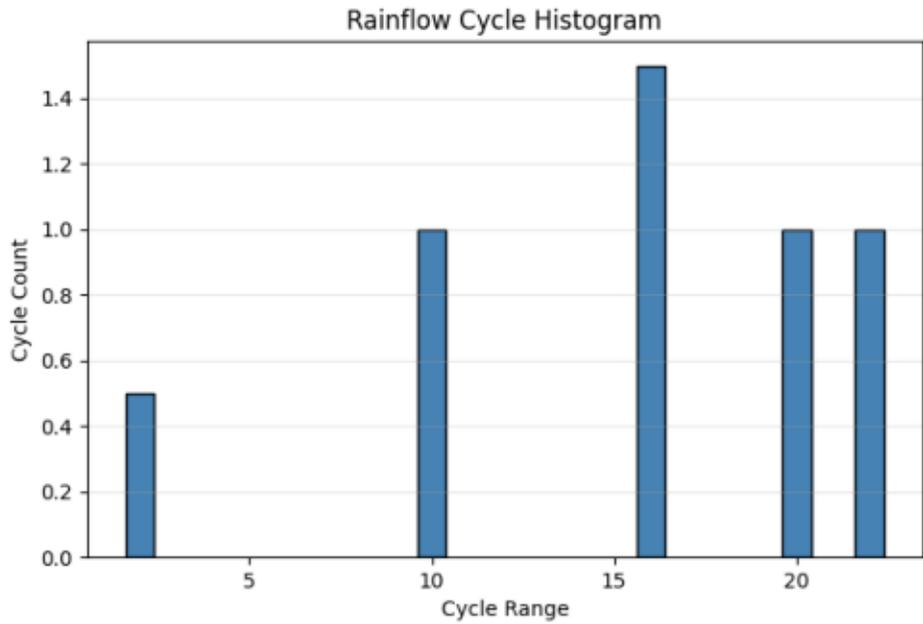
Algorithm Status

X = 19 Y = 29



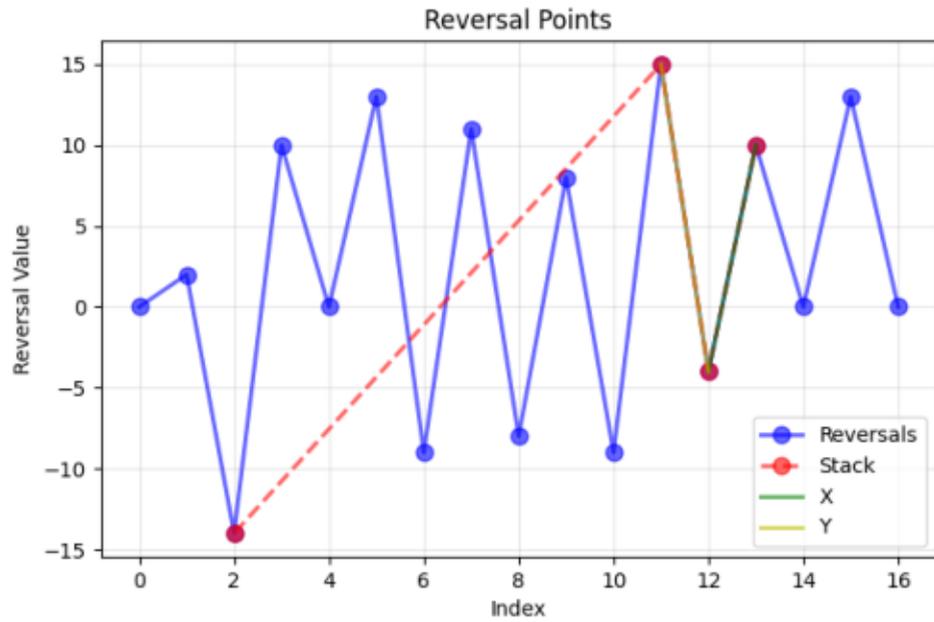
Current Stack

Stack = [-14, 15, -4]



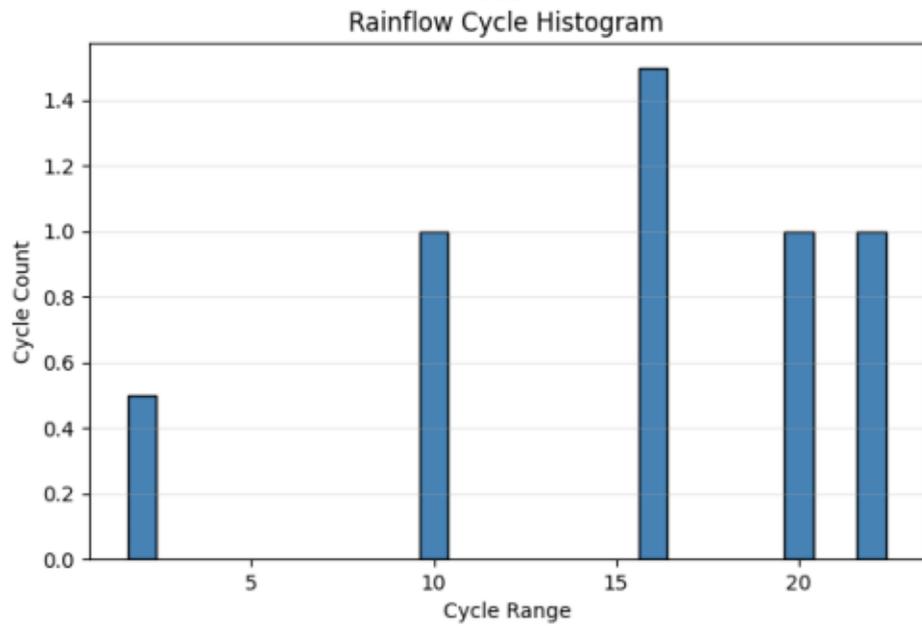
Algorithm Status

X = 19 Y = 29: X < Y, back to step 1 (add a point)



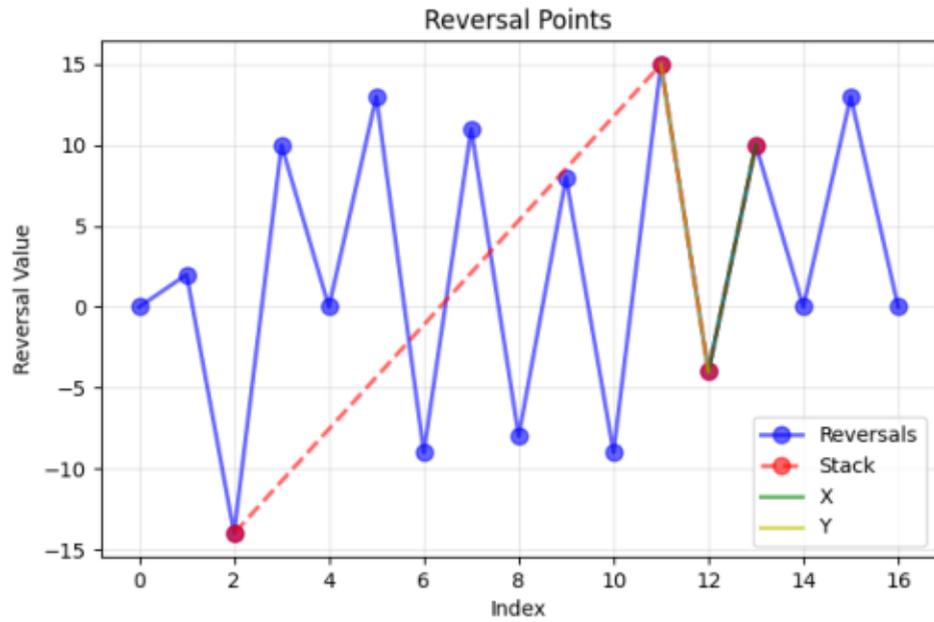
Current Stack

Stack = [-14, 15, -4, 10]



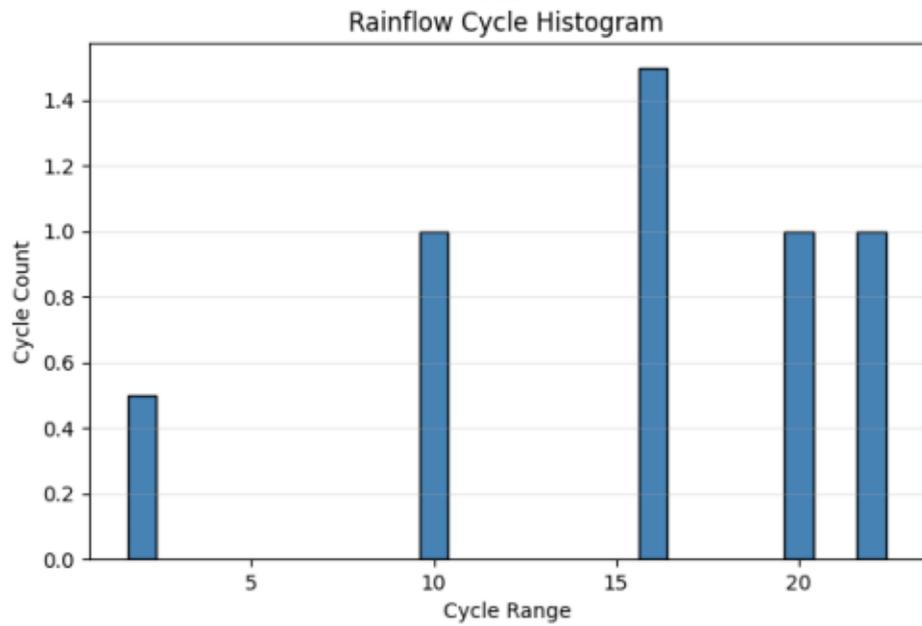
Algorithm Status

X = 14 Y = 19



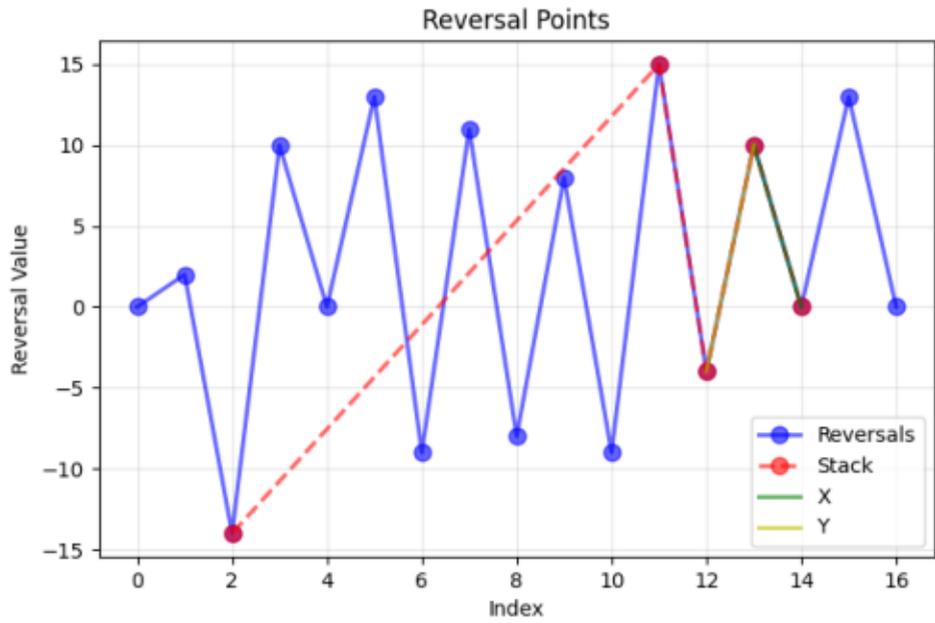
Current Stack

Stack = [-14, 15, -4, 10]



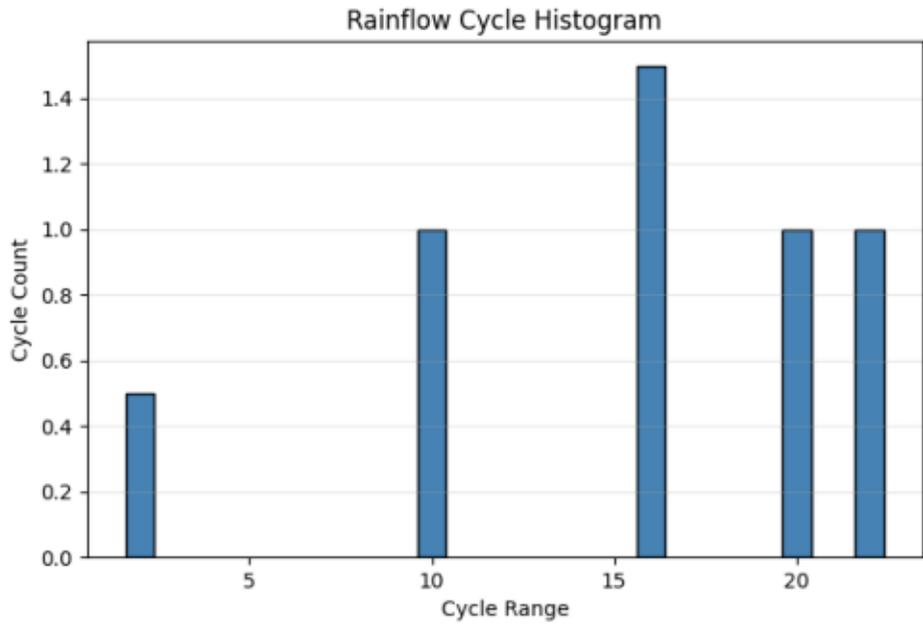
Algorithm Status

X = 14 Y = 19: X < Y, back to step 1 (add a point)



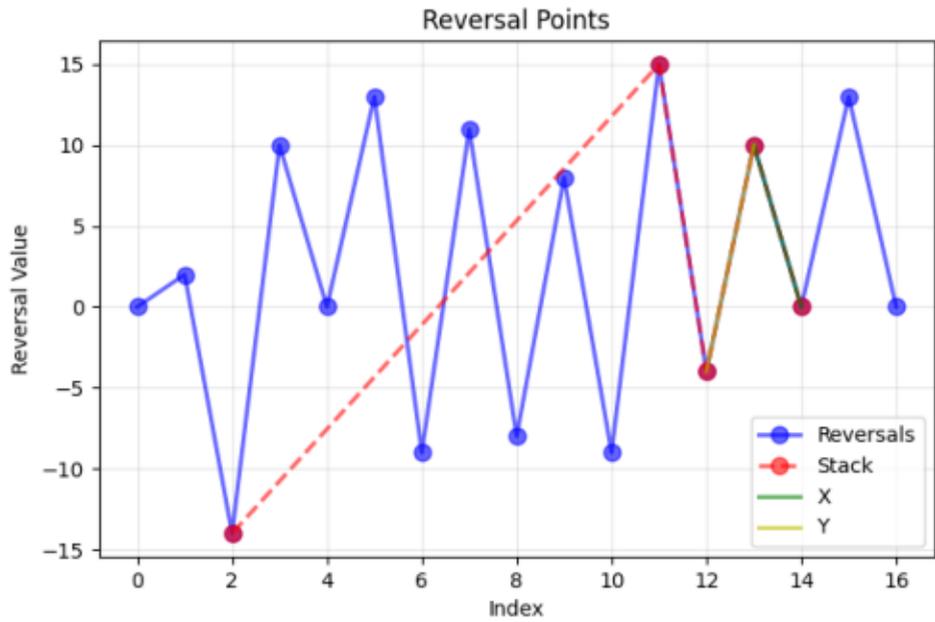
Current Stack

Stack = [-14, 15, -4, 10, 0]



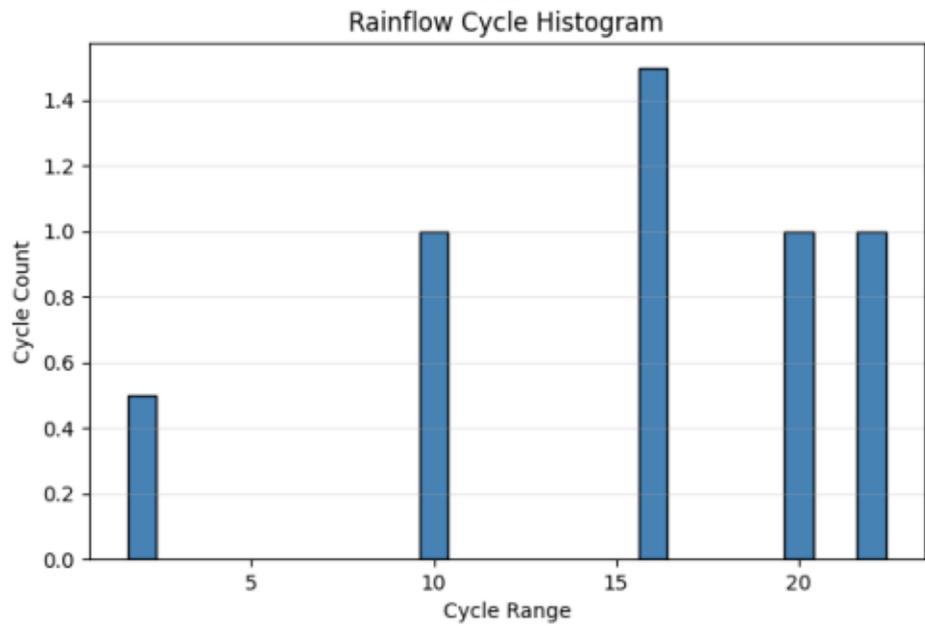
Algorithm Status

X = 10 Y = 14



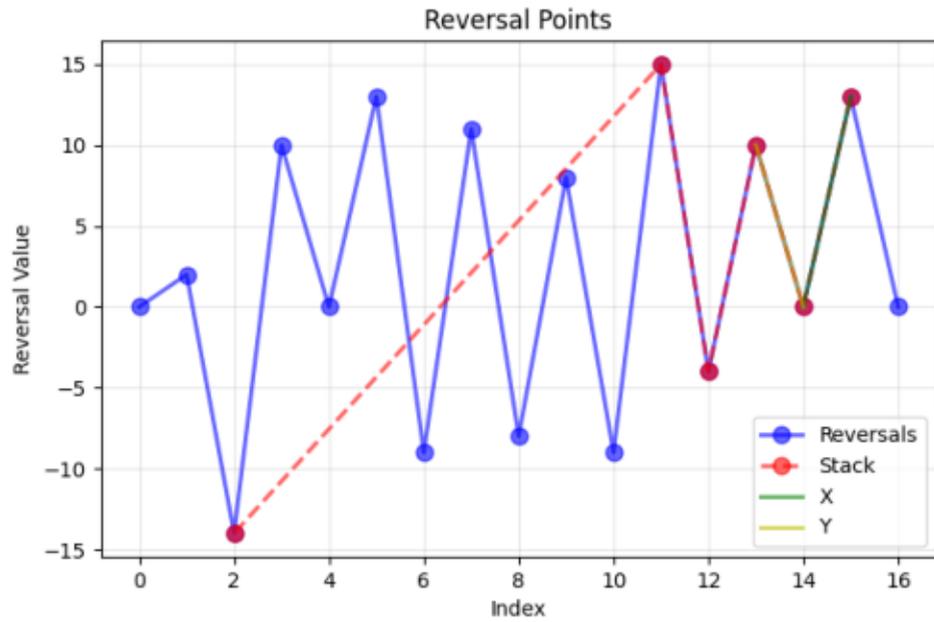
Current Stack

Stack = [-14, 15, -4, 10, 0]



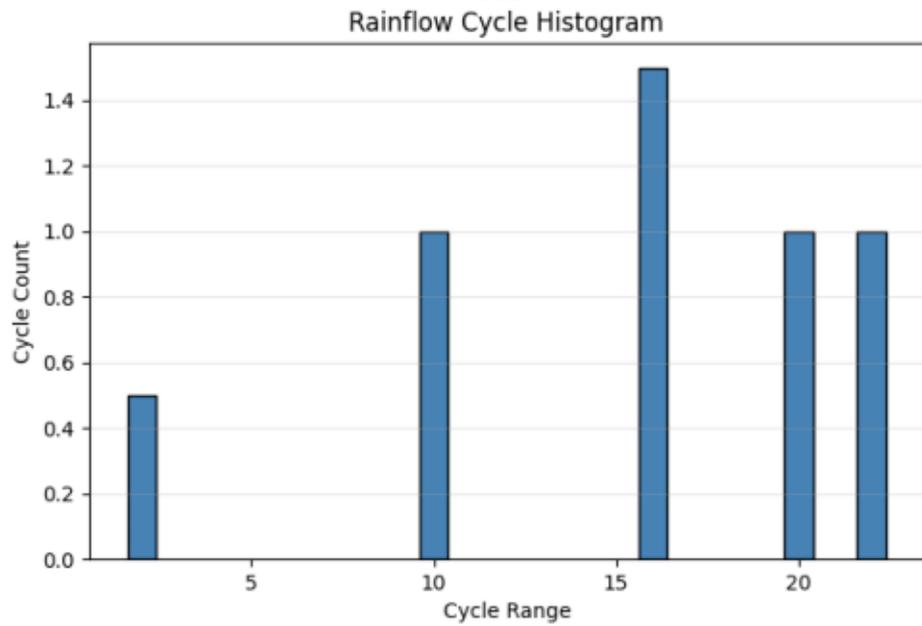
Algorithm Status

X = 10 Y = 14: X < Y, back to step 1 (add a point)



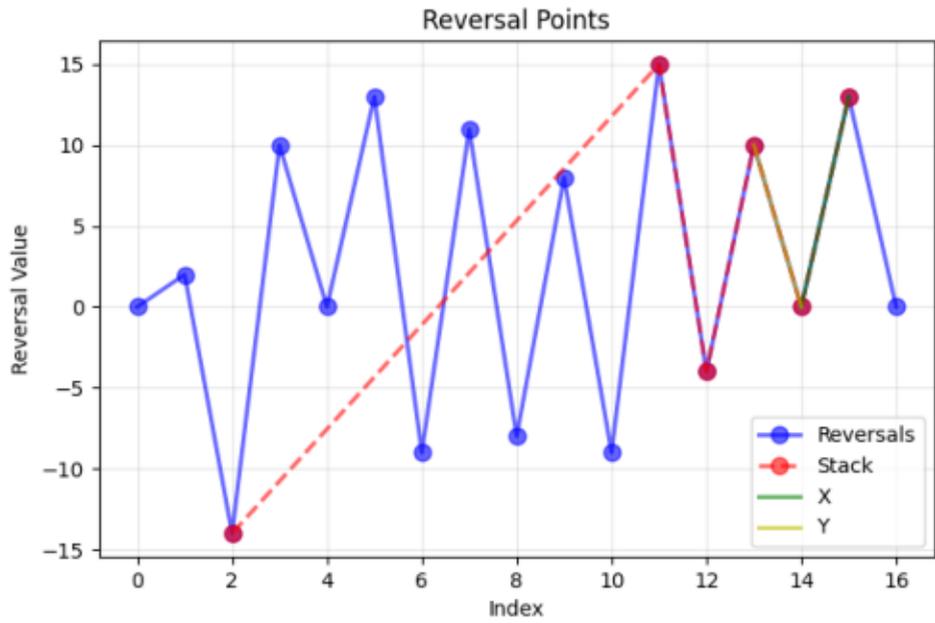
Current Stack

Stack = [-14, 15, -4, 10, 0, 13]



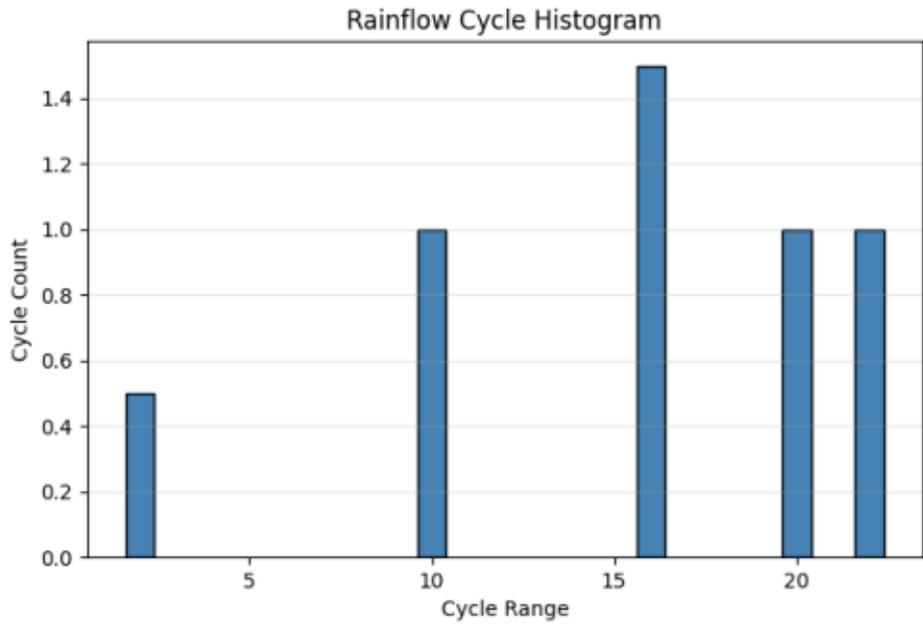
Algorithm Status

X = 13 Y = 10



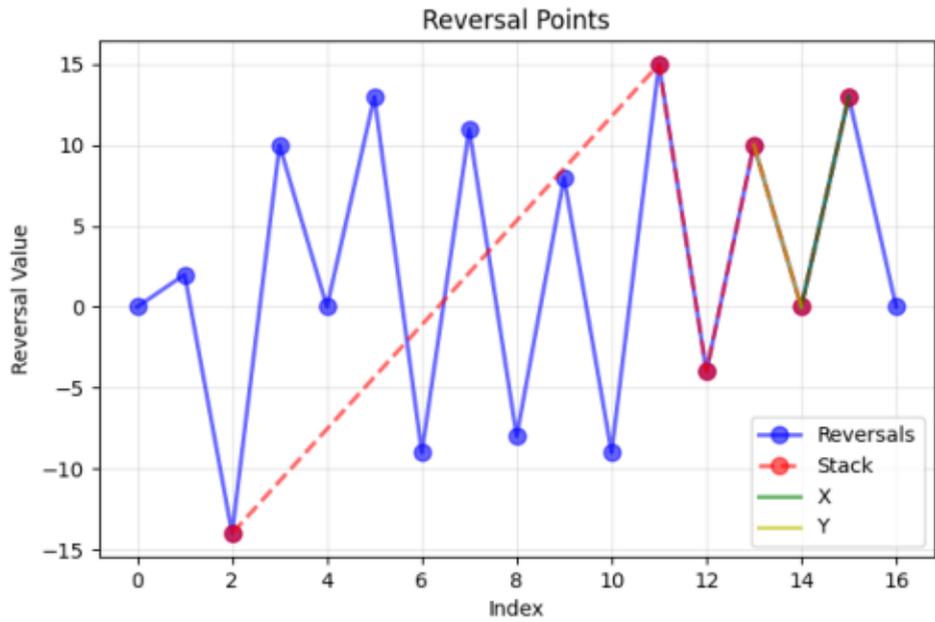
Current Stack

Stack = [-14, 15, -4, 10, 0, 13]



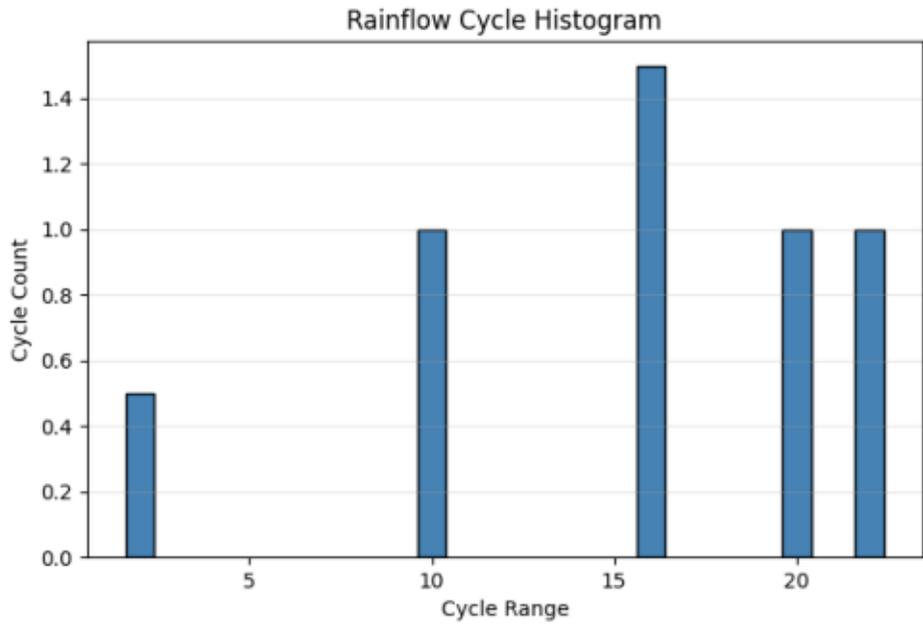
Algorithm Status

X = 13 Y = 10: X >= Y



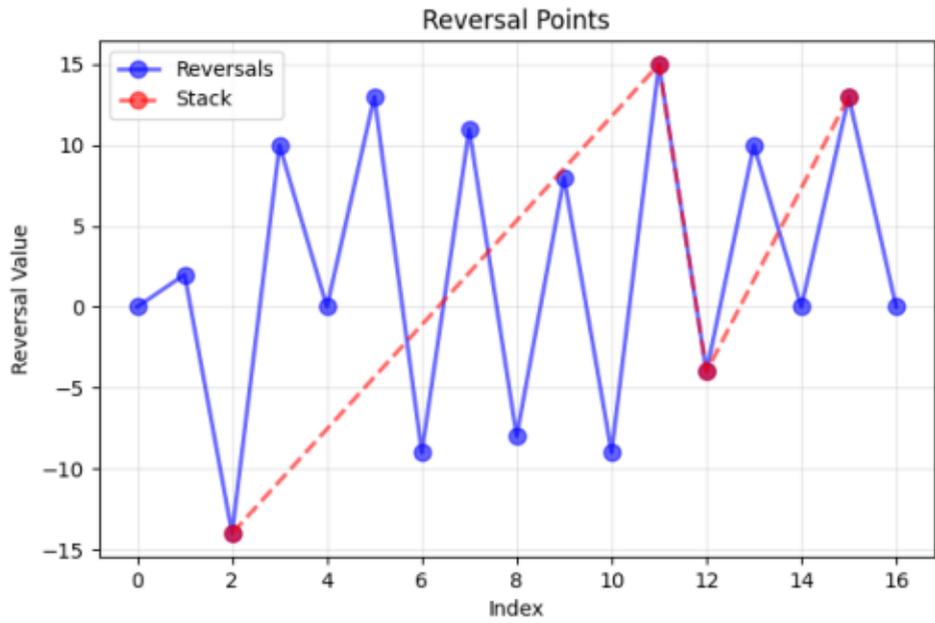
Current Stack

Stack = [-14, 15, -4, 10, 0, 13]



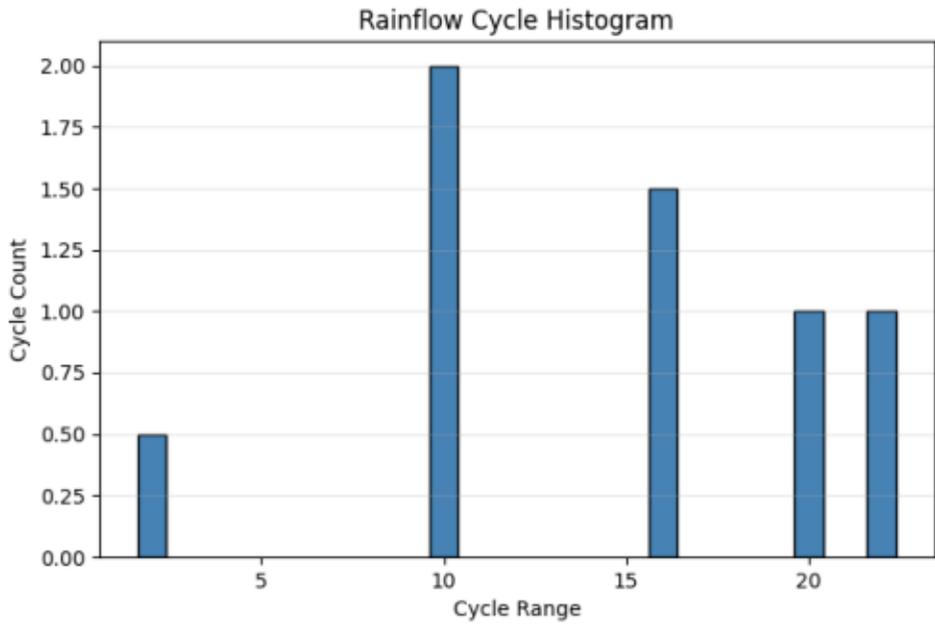
Algorithm Status

First point in Y is not starting point, count Y = 10 as a full cycle and remove points from Y from stack



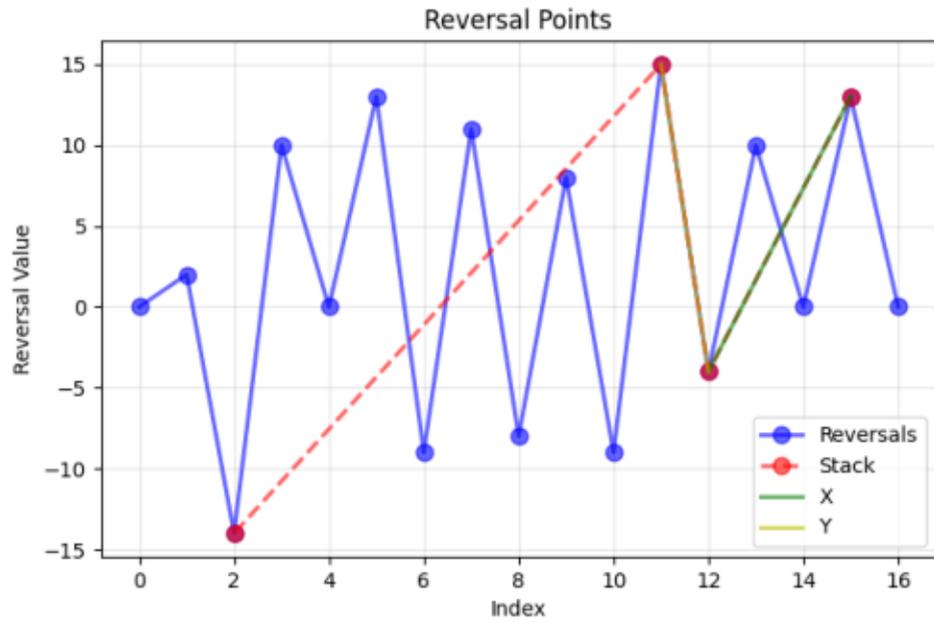
Current Stack

Stack = [-14, 15, -4, 13]



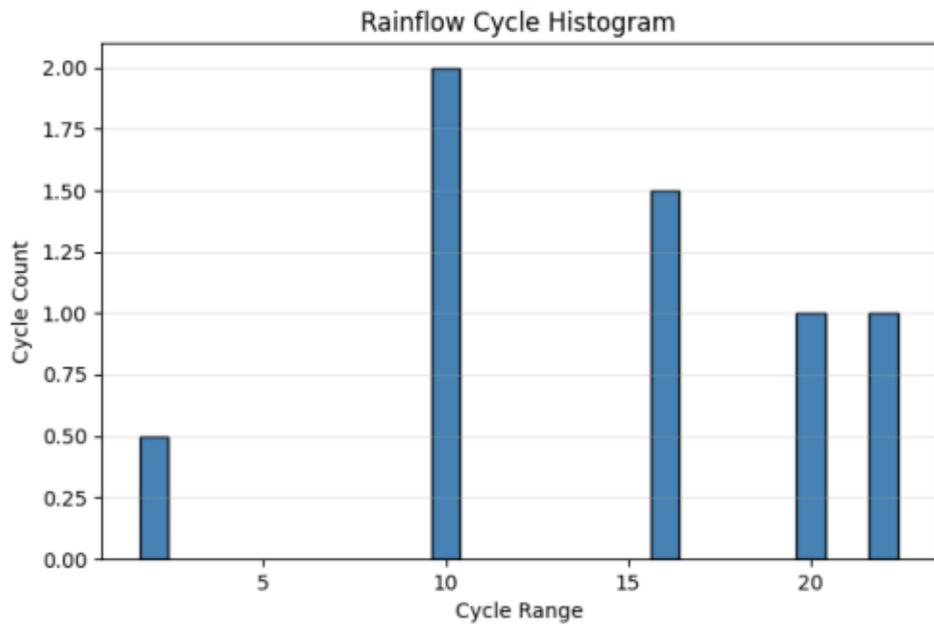
Algorithm Status

Y points removed from stack



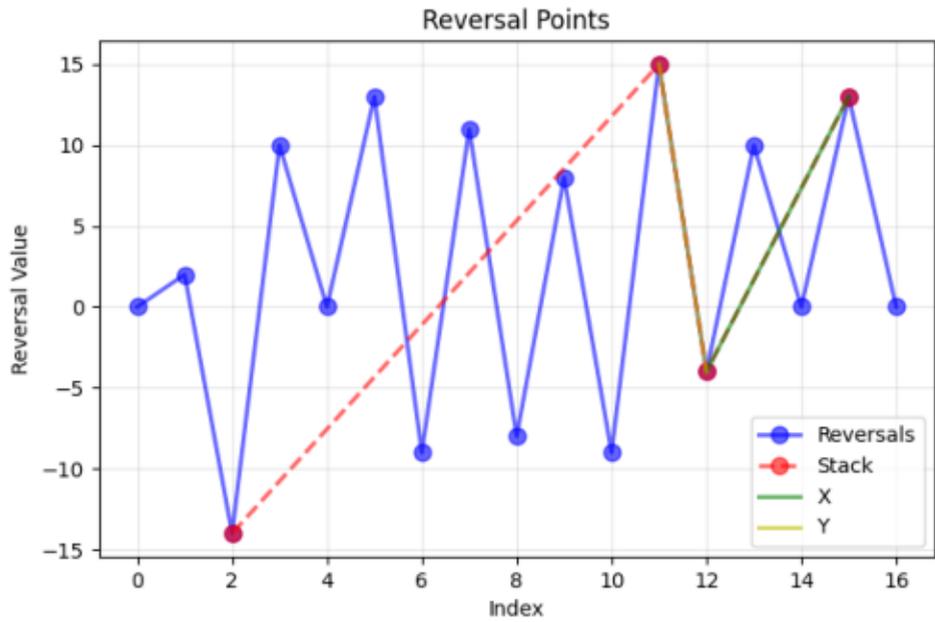
Current Stack

Stack = [-14, 15, -4, 13]



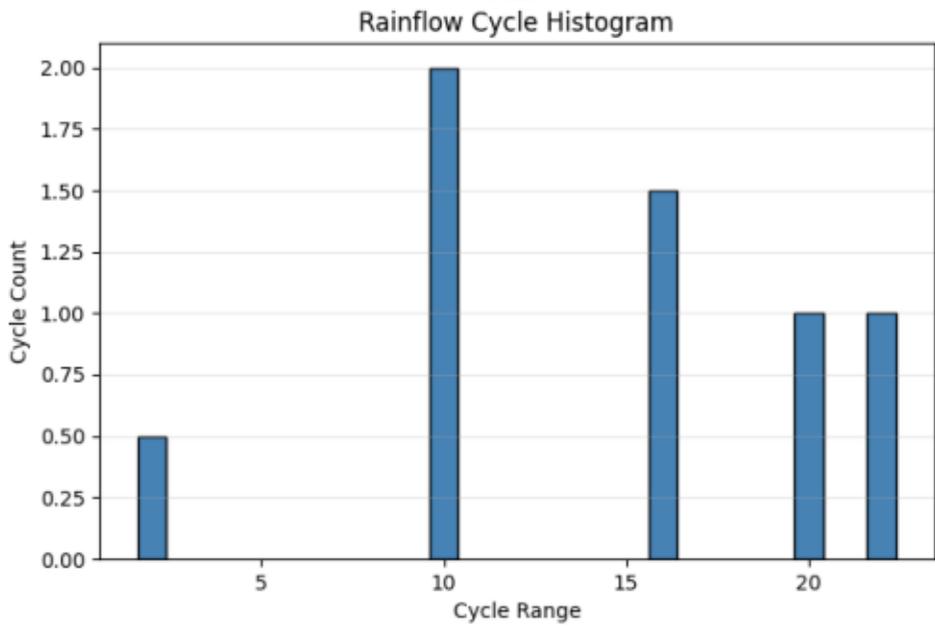
Algorithm Status

X = 17 Y = 19



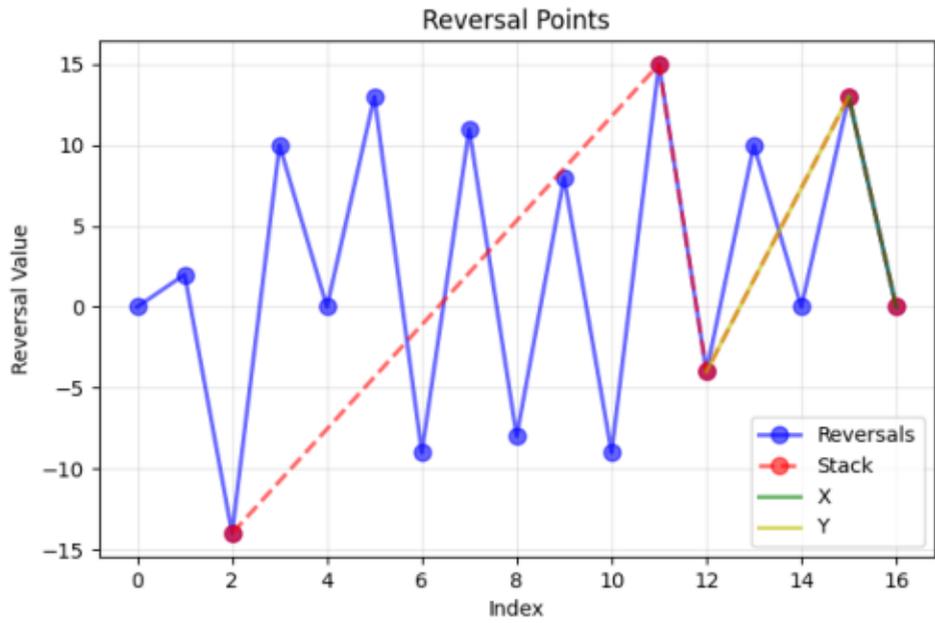
Current Stack

Stack = [-14, 15, -4, 13]



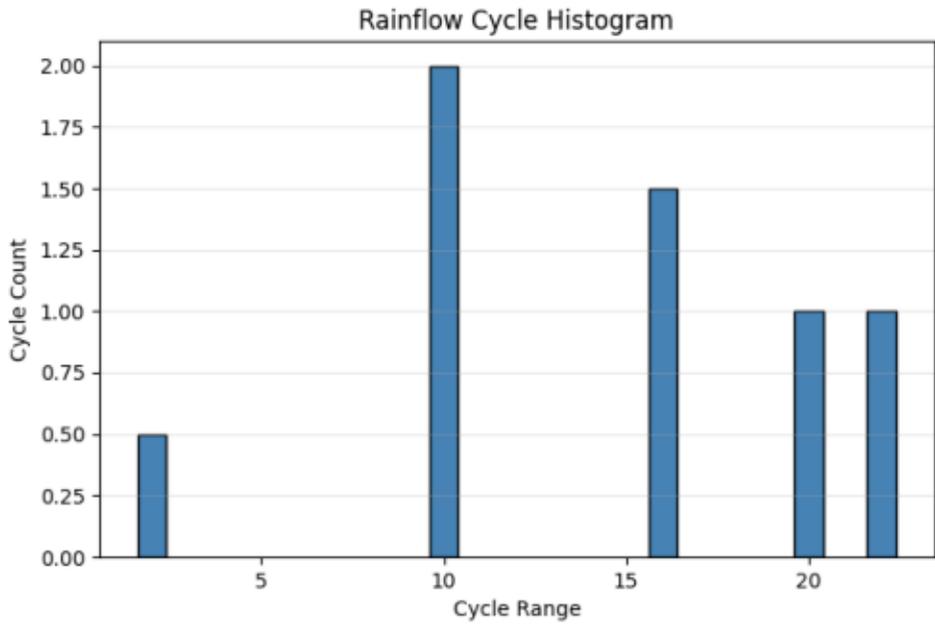
Algorithm Status

X = 17 Y = 19: X < Y, back to step 1 (add a point)



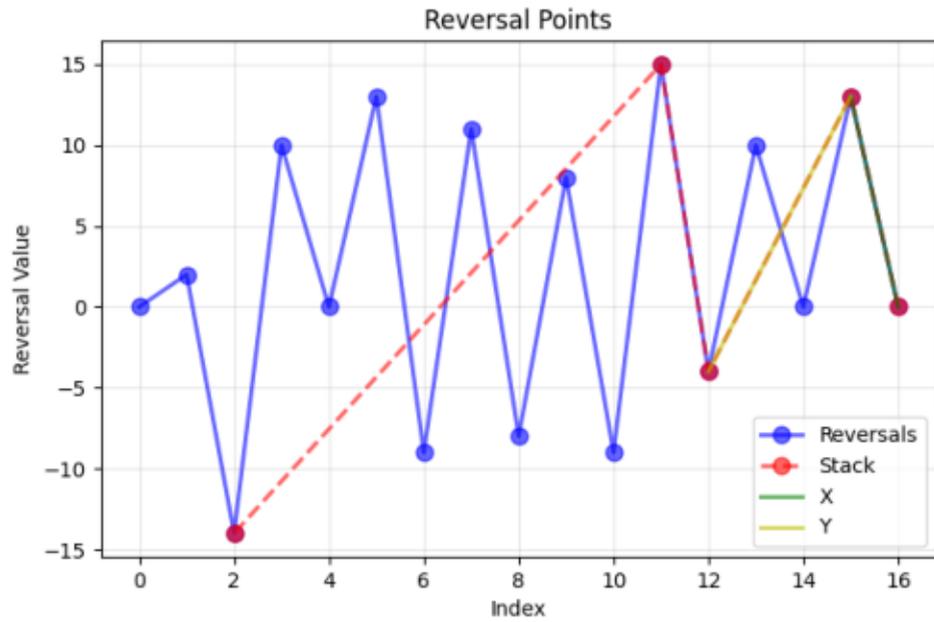
Current Stack

Stack = [-14, 15, -4, 13, 0]



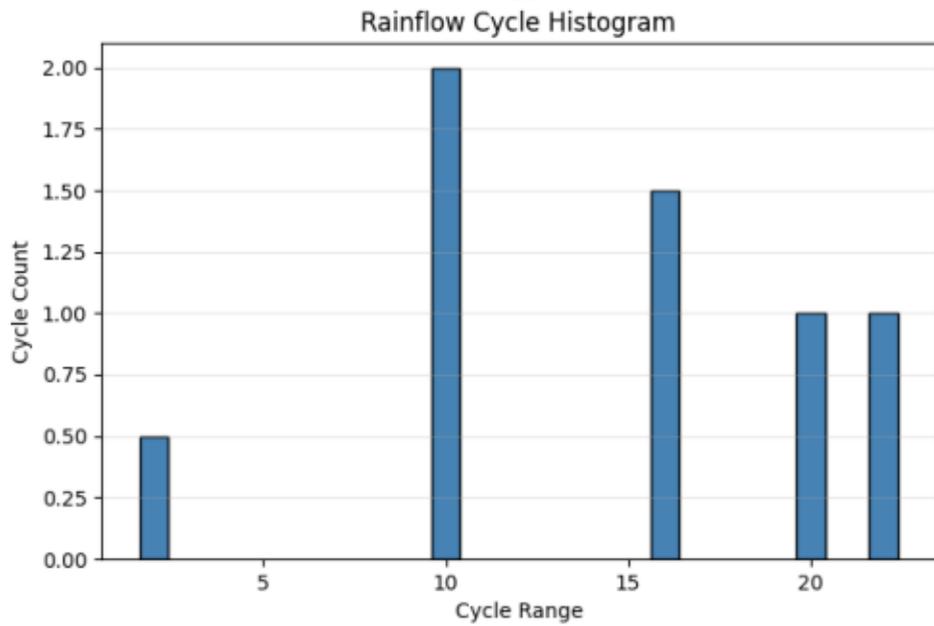
Algorithm Status

X = 13 Y = 17



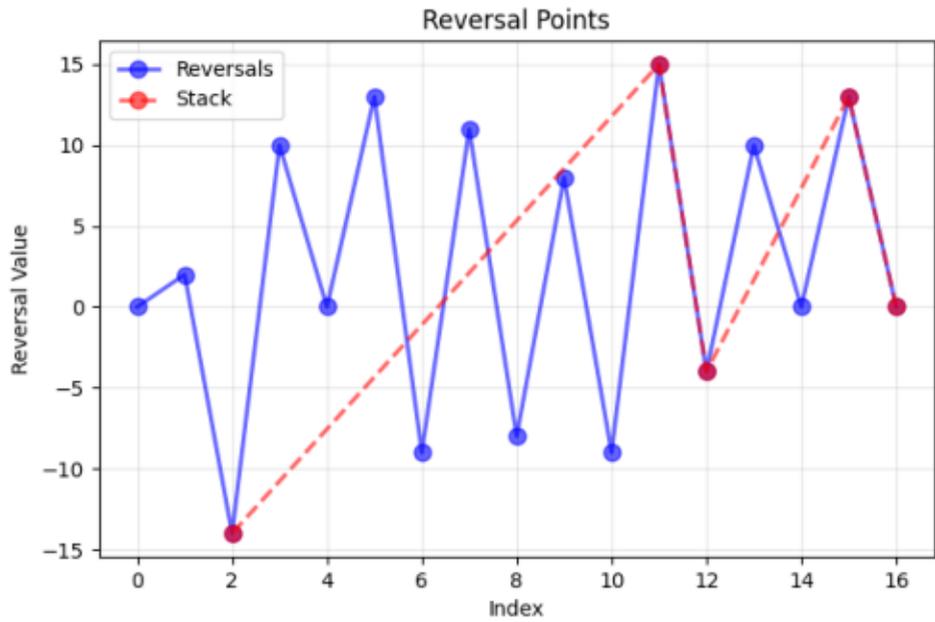
Current Stack

Stack = [-14, 15, -4, 13, 0]



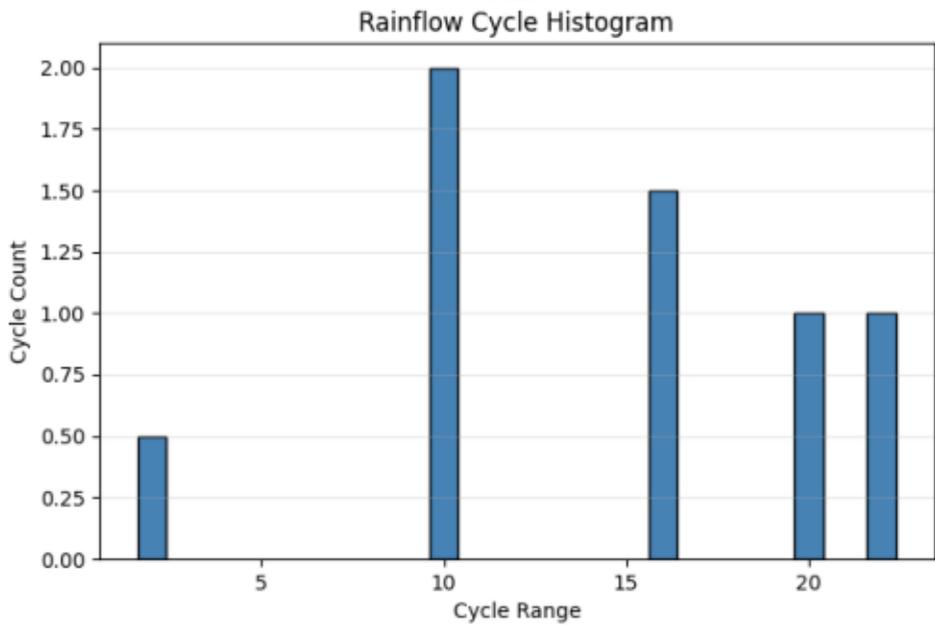
Algorithm Status

X = 13 Y = 17: X < Y, back to step 1 (add a point)



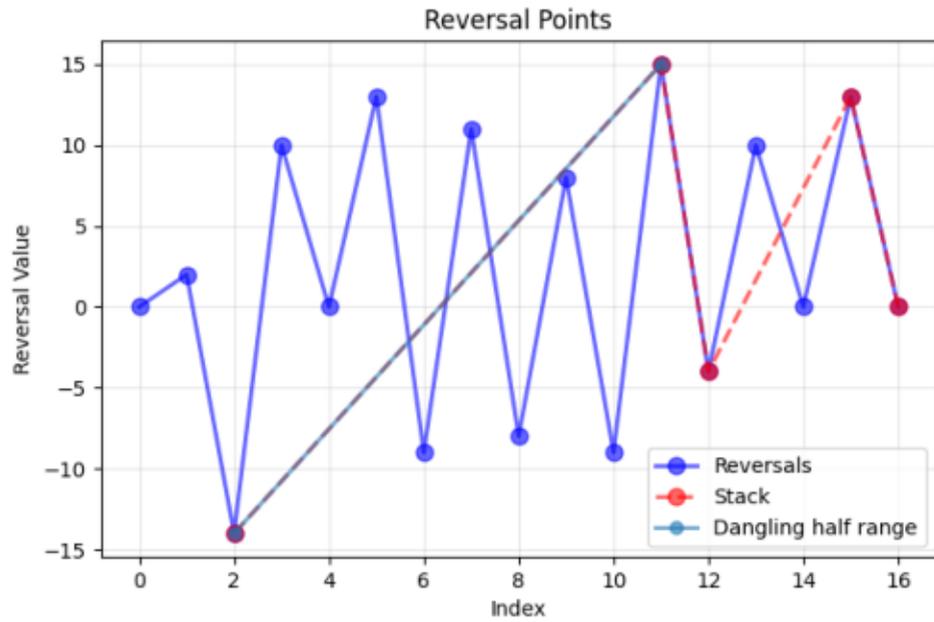
Current Stack

Stack = [-14, 15, -4, 13, 0]



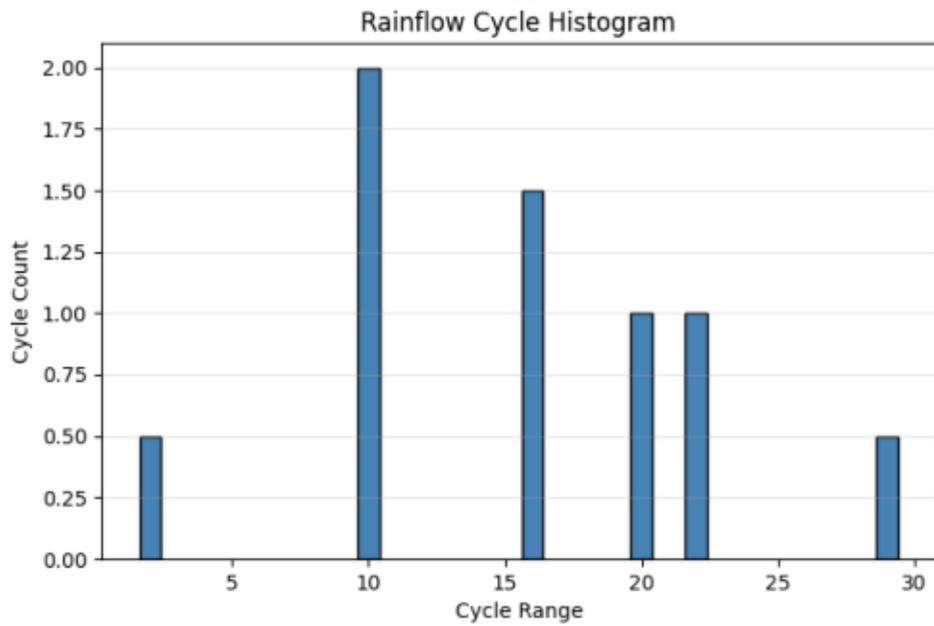
Algorithm Status

We reached the end of the reversal series, add remaining ranges as half cycles



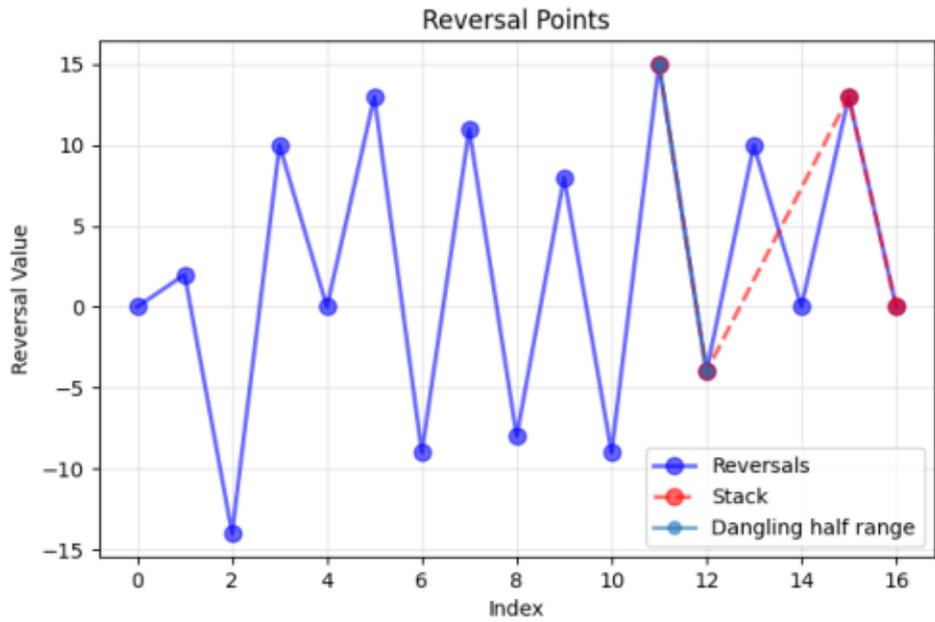
Current Stack

Stack = [-14, 15, -4, 13, 0]



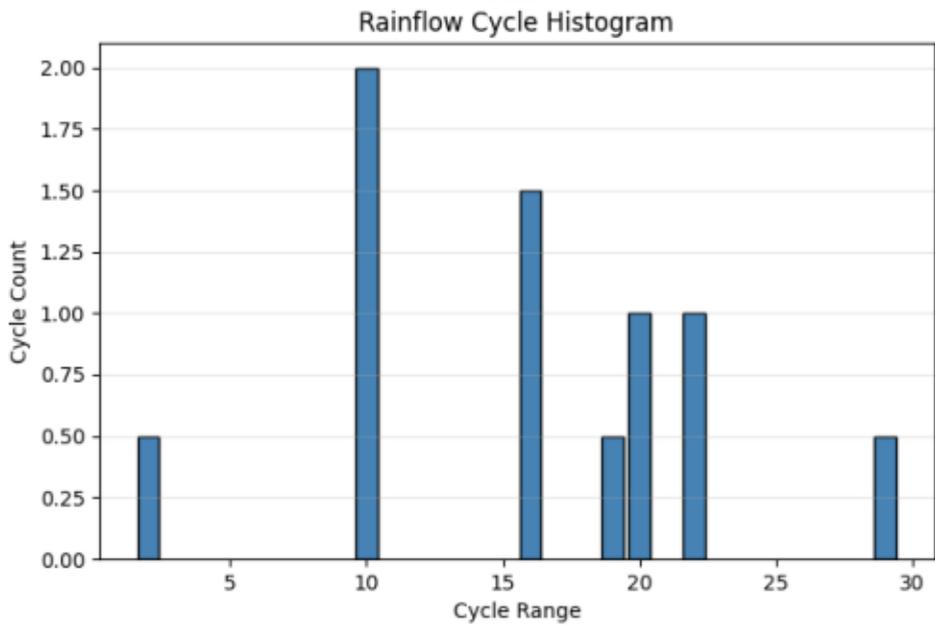
Algorithm Status

Add dangling half range 29 to histogram



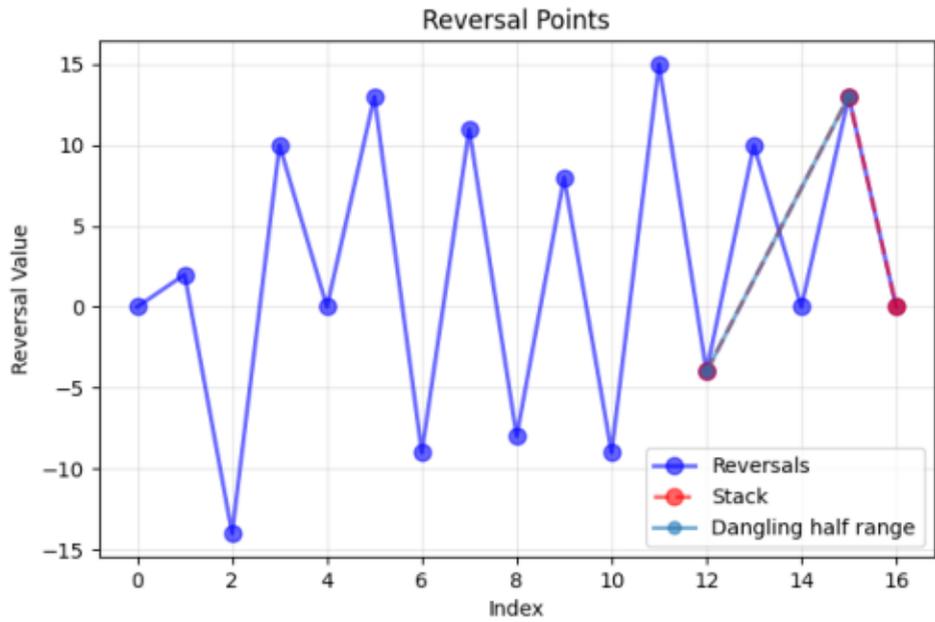
Current Stack

Stack = [-14, 15, -4, 13, 0]



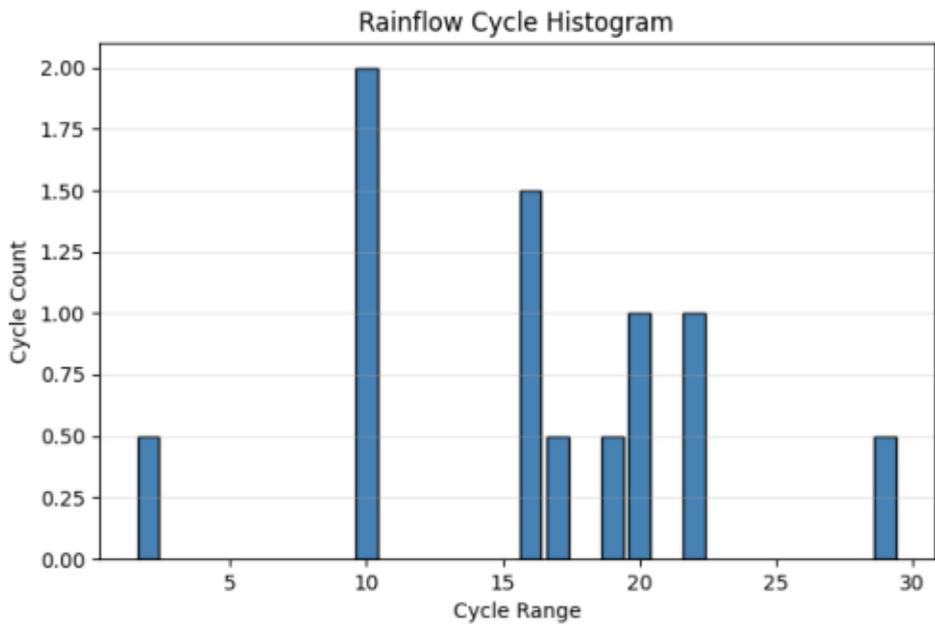
Algorithm Status

Add dangling half range 19 to histogram



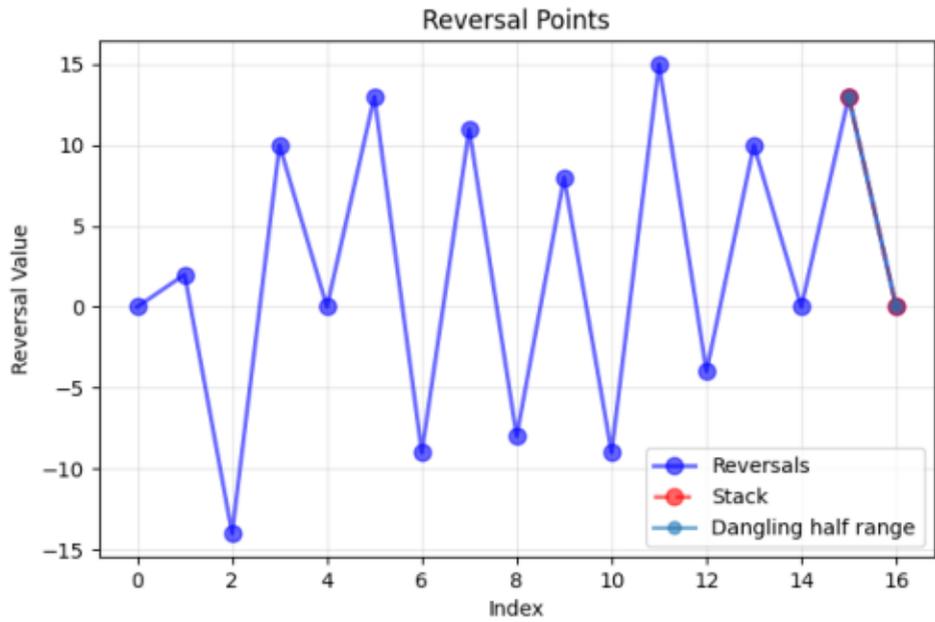
Current Stack

Stack = [-14, 15, -4, 13, 0]



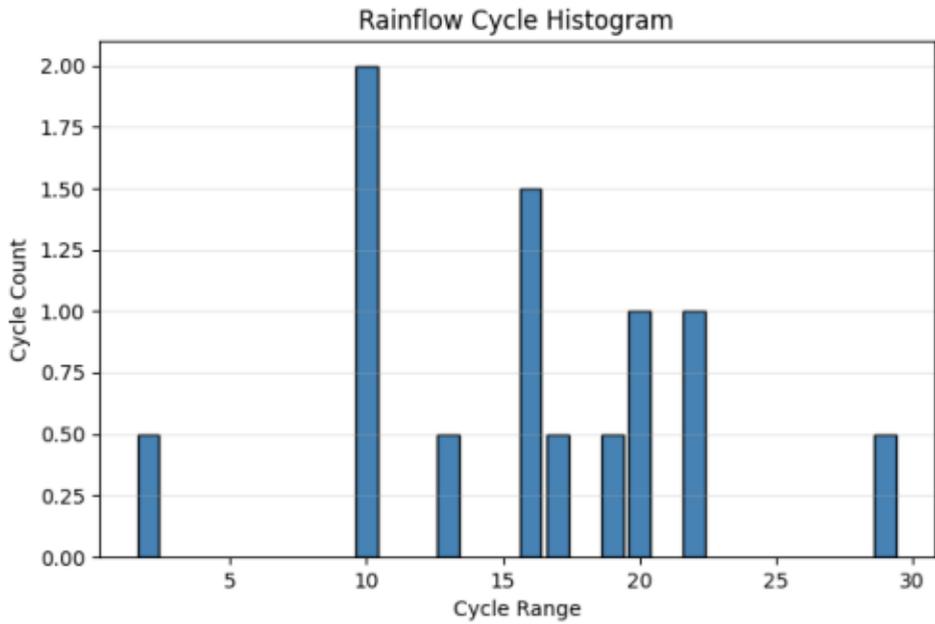
Algorithm Status

Add dangling half range 17 to histogram



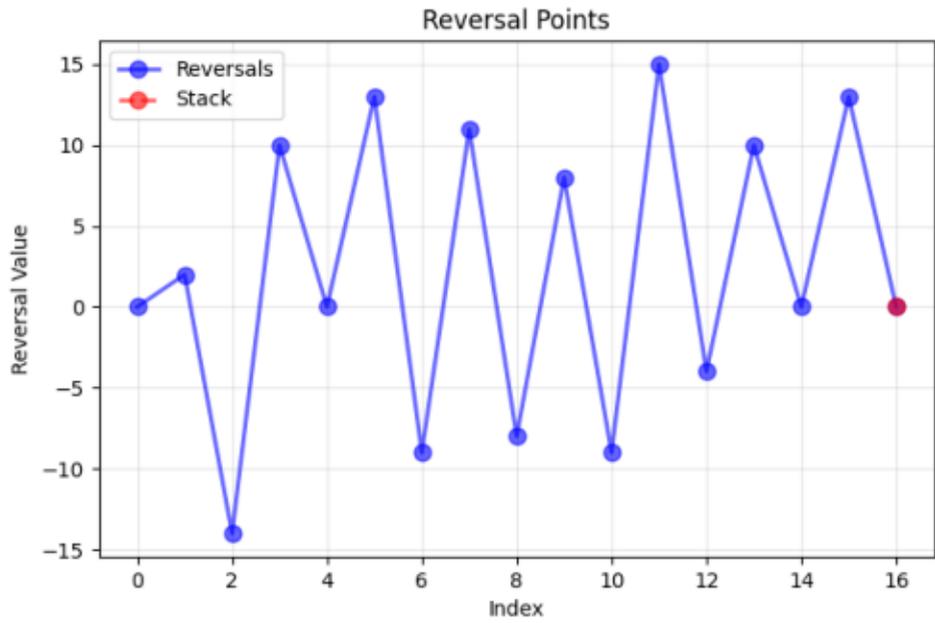
Current Stack

Stack = [-14, 15, -4, 13, 0]



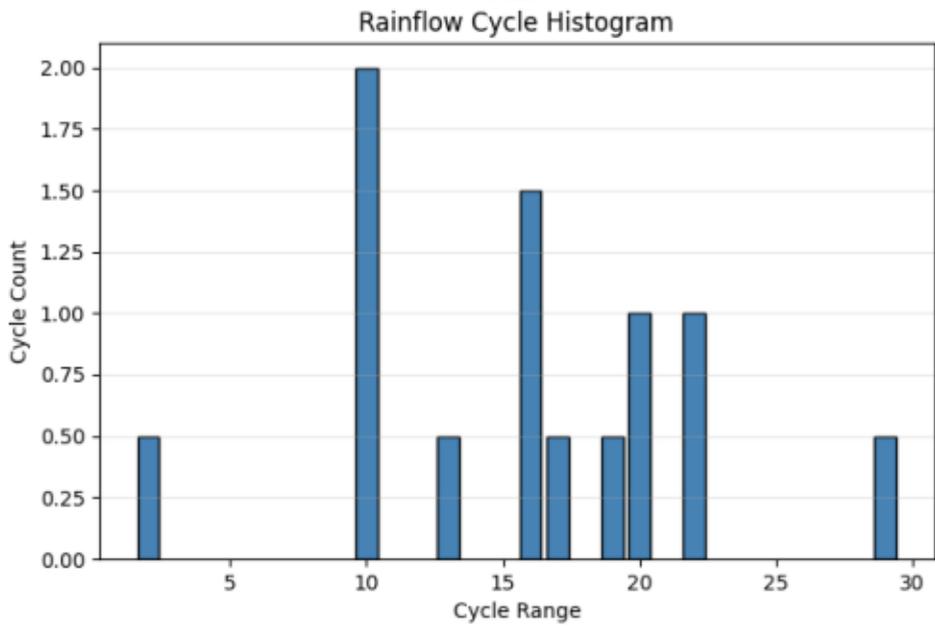
Algorithm Status

Add dangling half range 13 to histogram



Current Stack

Stack = [-14, 15, -4, 13, 0]



Algorithm Status

End of algorithm