Manual Execution

In this execution we will do the MaxOneD.

In the first step we will take the array.

Example:

Cases: 1

n = 5

Visually =

2	-3	5	-1	4
0	1	2	3	4

A[n+1];

currSum = 0

A[0] = 0

0

1°
i = 1

CurrSum = max(currSum + A[i -1], A[i-1])

2	-3	5	-1	4
0	1	2	3	4
^				

currSum = max(0+2,2)

maxSum = max(2,2)

currSum = 2

New array:

0	2

2°

i = 2

CurrSum = max(currSum+A[i-1], A[i-1])

2	-3	5	-1	4
0	1	2	3	4
	^			

currSum = max(2-3, 2)

maxSum = max(-1,2)

currSum = -1

New array:

0	2	2

3°

i = 3

currSum = max(currSum+A[i-1], A[i-1])

2	-3	5	-1	4

0	1	2	3	4
2	**-3**	**5**	**-1**	**4**
		^		

currSum = max(-1 + 5, 5)

maxSum = max(4,5)

currSum = 5

New array:

0	2	2	**5**	

4°

i = 4

currSum = max(currSum+A[i-1], A[i-1])

2	**-3**	**5**	**-1**	**4**
0	1	2	3	4
			^	

currSum = max(5-1,-1)

maxSum = max(4, 5)

currSum = 4

New array:

0	2	2	**5**	**5**

5°

i = 5

currSum = max(currSum+A[i-1], A[i-1])

2	**-3**	**5**	**-1**	**4**
0	1	2	3	4
				^

currSum = max(4+4, 4)

maxSum = max(8, 4)

currSum = 8

New array:

0	2	2	**5**	**5**	**8**

Max sum = 8