

Original vector

5	3	8	1	2	6	4	7	2	9	4	1	3	8	6	7
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1. Divide into chunks

5	3	8	1
2	6	4	7
2	9	4	1
3	8	6	7

2. Local inclusive prefix scan

5	8	16	17
2	8	12	19
2	11	15	16
3	11	17	24

3. Copy last local element

17	19	16	24
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4. Exclusive prefix sum

0	17	36	52
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5. Sum the result of step 4 to the corresponding local chunks

+				+				+				+			
5	8	16	17	2	8	12	19	2	11	15	16	3	11	17	24
=				=				=				=			
5	8	16	17	19	25	29	36	38	47	51	52	55	63	69	76