$$M_{ex}: -90 = 2 = 0 = 3 = 7$$
 $S=1 = 1-7$ 
 $S=1 = 7$ 

8=7

7-7

Kadanes Algo -2 -3 4 -1 -2 1 5 -3 Som = \$ - X - X 4 8 X 2 7 4 max = 10 1/2 4 7 Jus Toys 100 20 50 2 5 10 20 50 100 87 187 2 7 17 37 Buy I get k 4 odd+1/2 6/(3+1) 6/4 (1.5) 2 even/2 total toys on I punchase & I + R

 $n=100 \ 100/4$  n=103  $103/4 \gg 25.7$  n=103 n=10

nxq + nlogn

Perefix nlogn + n + q

Som

2 5 to 20 50 too 7 17 37 87 187 Jus Max Cierculase subassay sum -11 1=12.7 D -9 -11 - & J -8 9 10 \_5 ~ ( ) - 8

Som = 8 0 9 10

Sum

Sum = 16-8-A DK 5 -4 -3

nin = 16-8-2

Sum - min Subaray Sum, max Subcray Sum