
--- Array length is 1000
 $O(n^2)O(1)$: Sold on day 980 for 100. Bought on day 925 for 50. Profit = $100-50 = 50$
 $O(n^2)O(1) = 1000000$ numDivide = 0 numConquer = 499500
 $O(n\log n)O(\log n)$: Sold on day 181 for 100. Bought on day 180 for 50. Profit = $100-50 = 50$
 $O(n\log n)O(\log n) = 9965$ numDivide = 999 numConquer = 5044
 $O(n)O(\log n)$: Sold on day 181 for 100. Bought on day 180 for 50. Profit = $100-50 = 50$
 $O(n)O(\log n) = 1000$ numDivide = 999 numConquer = 999
 $O(n)O(1)$: Sold on day 181 for 100. Bought on day 29 for 50. Profit = $100-50 = 50$
 $O(n)O(1) = 1000$ numDivide = 0 numConquer = 999

--- Array length is 1000
 $O(n^2)O(1)$: Sold on day 989 for 100. Bought on day 928 for 50. Profit = $100-50 = 50$
 $O(n^2)O(1) = 1000000$ numDivide = 0 numConquer = 499500
 $O(n\log n)O(\log n)$: Sold on day 228 for 100. Bought on day 37 for 50. Profit = $100-50 = 50$
 $O(n\log n)O(\log n) = 9965$ numDivide = 999 numConquer = 5044
 $O(n)O(\log n)$: Sold on day 228 for 100. Bought on day 45 for 50. Profit = $100-50 = 50$
 $O(n)O(\log n) = 1000$ numDivide = 999 numConquer = 999
 $O(n)O(1)$: Sold on day 203 for 100. Bought on day 37 for 50. Profit = $100-50 = 50$
 $O(n)O(1) = 1000$ numDivide = 0 numConquer = 999

--- Array length is 1000
 $O(n^2)O(1)$: Sold on day 970 for 100. Bought on day 933 for 50. Profit = $100-50 = 50$
 $O(n^2)O(1) = 1000000$ numDivide = 0 numConquer = 499500
 $O(n\log n)O(\log n)$: Sold on day 345 for 100. Bought on day 307 for 50. Profit = $100-50 = 50$
 $O(n\log n)O(\log n) = 9965$ numDivide = 999 numConquer = 5044
 $O(n)O(\log n)$: Sold on day 345 for 100. Bought on day 307 for 50. Profit = $100-50 = 50$
 $O(n)O(\log n) = 1000$ numDivide = 999 numConquer = 999
 $O(n)O(1)$: Sold on day 345 for 100. Bought on day 307 for 50. Profit = $100-50 = 50$
 $O(n)O(1) = 1000$ numDivide = 0 numConquer = 999

--- Array length is 1000
 $O(n^2)O(1)$: Sold on day 903 for 100. Bought on day 896 for 50. Profit = $100-50 = 50$
 $O(n^2)O(1) = 1000000$ numDivide = 0 numConquer = 499500
 $O(n\log n)O(\log n)$: Sold on day 84 for 100. Bought on day 28 for 50. Profit = $100-50 = 50$
 $O(n\log n)O(\log n) = 9965$ numDivide = 999 numConquer = 5044
 $O(n)O(\log n)$: Sold on day 84 for 100. Bought on day 28 for 50. Profit = $100-50 = 50$
 $O(n)O(\log n) = 1000$ numDivide = 999 numConquer = 999
 $O(n)O(1)$: Sold on day 71 for 100. Bought on day 28 for 50. Profit = $100-50 = 50$
 $O(n)O(1) = 1000$ numDivide = 0 numConquer = 999

--- Array length is 1000
 $O(n^2)O(1)$: Sold on day 935 for 100. Bought on day 847 for 50. Profit = $100-50 = 50$
 $O(n^2)O(1) = 1000000$ numDivide = 0 numConquer = 499500
 $O(n\log n)O(\log n)$: Sold on day 28 for 100. Bought on day 1 for 50. Profit = $100-50 = 50$
 $O(n\log n)O(\log n) = 9965$ numDivide = 999 numConquer = 5044
 $O(n)O(\log n)$: Sold on day 28 for 100. Bought on day 1 for 50. Profit = $100-50 = 50$
 $O(n)O(\log n) = 1000$ numDivide = 999 numConquer = 999
 $O(n)O(1)$: Sold on day 28 for 100. Bought on day 1 for 50. Profit = $100-50 = 50$
 $O(n)O(1) = 1000$ numDivide = 0 numConquer = 999

--- Array length is 1000
 $O(n^2)O(1)$: Sold on day 963 for 100. Bought on day 955 for 50. Profit = $100-50 = 50$

$O(n^2)O(1)$ = 1000000 numDivide = 0 numConquer = 499500
 $O(n \log n)O(\log n)$: Sold on day 54 for 100. Bought on day 37 for 50. Profit = 100-50 = 50
 $O(n \log n)O(\log n)$ = 9965 numDivide = 999 numConquer = 5044
 $O(n)O(\log n)$: Sold on day 54 for 100. Bought on day 37 for 50. Profit = 100-50 = 50
 $O(n)O(\log n)$ = 1000 numDivide = 999 numConquer = 999
 $O(n)O(1)$: Sold on day 54 for 100. Bought on day 31 for 50. Profit = 100-50 = 50
 $O(n)O(1)$ = 1000 numDivide = 0 numConquer = 999

--- Array length is 1000

$O(n^2)O(1)$: Sold on day 938 for 100. Bought on day 920 for 50. Profit = 100-50 = 50
 $O(n^2)O(1)$ = 1000000 numDivide = 0 numConquer = 499500
 $O(n \log n)O(\log n)$: Sold on day 112 for 100. Bought on day 89 for 50. Profit = 100-50 = 50
 $O(n \log n)O(\log n)$ = 9965 numDivide = 999 numConquer = 5044
 $O(n)O(\log n)$: Sold on day 112 for 100. Bought on day 89 for 50. Profit = 100-50 = 50
 $O(n)O(\log n)$ = 1000 numDivide = 999 numConquer = 999
 $O(n)O(1)$: Sold on day 65 for 100. Bought on day 48 for 50. Profit = 100-50 = 50
 $O(n)O(1)$ = 1000 numDivide = 0 numConquer = 999

--- Array length is 1000

$O(n^2)O(1)$: Sold on day 925 for 100. Bought on day 903 for 50. Profit = 100-50 = 50
 $O(n^2)O(1)$ = 1000000 numDivide = 0 numConquer = 499500
 $O(n \log n)O(\log n)$: Sold on day 213 for 100. Bought on day 191 for 50. Profit = 100-50 = 50
 $O(n \log n)O(\log n)$ = 9965 numDivide = 999 numConquer = 5044
 $O(n)O(\log n)$: Sold on day 213 for 100. Bought on day 191 for 50. Profit = 100-50 = 50
 $O(n)O(\log n)$ = 1000 numDivide = 999 numConquer = 999
 $O(n)O(1)$: Sold on day 213 for 100. Bought on day 40 for 50. Profit = 100-50 = 50
 $O(n)O(1)$ = 1000 numDivide = 0 numConquer = 999

--- Array length is 1000

$O(n^2)O(1)$: Sold on day 912 for 100. Bought on day 820 for 50. Profit = 100-50 = 50
 $O(n^2)O(1)$ = 1000000 numDivide = 0 numConquer = 499500
 $O(n \log n)O(\log n)$: Sold on day 53 for 100. Bought on day 18 for 50. Profit = 100-50 = 50
 $O(n \log n)O(\log n)$ = 9965 numDivide = 999 numConquer = 5044
 $O(n)O(\log n)$: Sold on day 53 for 100. Bought on day 30 for 50. Profit = 100-50 = 50
 $O(n)O(\log n)$ = 1000 numDivide = 999 numConquer = 999
 $O(n)O(1)$: Sold on day 53 for 100. Bought on day 18 for 50. Profit = 100-50 = 50
 $O(n)O(1)$ = 1000 numDivide = 0 numConquer = 999

--- Array length is 1000

$O(n^2)O(1)$: Sold on day 987 for 100. Bought on day 944 for 50. Profit = 100-50 = 50
 $O(n^2)O(1)$ = 1000000 numDivide = 0 numConquer = 499500
 $O(n \log n)O(\log n)$: Sold on day 97 for 100. Bought on day 75 for 50. Profit = 100-50 = 50
 $O(n \log n)O(\log n)$ = 9965 numDivide = 999 numConquer = 5044
 $O(n)O(\log n)$: Sold on day 97 for 100. Bought on day 75 for 50. Profit = 100-50 = 50
 $O(n)O(\log n)$ = 1000 numDivide = 999 numConquer = 999
 $O(n)O(1)$: Sold on day 97 for 100. Bought on day 75 for 50. Profit = 100-50 = 50
 $O(n)O(1)$ = 1000 numDivide = 0 numConquer = 999

--- Array length is 1000

$O(n^2)O(1)$: Sold on day 999 for 100. Bought on day 989 for 50. Profit = 100-50 = 50
 $O(n^2)O(1)$ = 1000000 numDivide = 0 numConquer = 499500
 $O(n \log n)O(\log n)$: Sold on day 19 for 100. Bought on day 0 for 50. Profit = 100-50 = 50
 $O(n \log n)O(\log n)$ = 9965 numDivide = 999 numConquer = 5044
 $O(n)O(\log n)$: Sold on day 19 for 100. Bought on day 0 for 50. Profit = 100-50 = 50

$O(n)O(\log n) = 1000$ numDivide = 999 numConquer = 999
 $O(n)O(1)$: Sold on day 19 for 100. Bought on day 0 for 50. Profit = $100 - 50 = 50$
 $O(n)O(1) = 1000$ numDivide = 0 numConquer = 999

 --- Array length is 1000
 $O(n^2)O(1)$: Sold on day 887 for 100. Bought on day 784 for 50. Profit = $100 - 50 = 50$
 $O(n^2)O(1) = 1000000$ numDivide = 0 numConquer = 499500
 $O(n \log n)O(\log n)$: Sold on day 274 for 100. Bought on day 255 for 50. Profit = $100 - 50 = 50$
 $O(n \log n)O(\log n) = 9965$ numDivide = 999 numConquer = 5044
 $O(n)O(\log n)$: Sold on day 274 for 100. Bought on day 265 for 50. Profit = $100 - 50 = 50$
 $O(n)O(\log n) = 1000$ numDivide = 999 numConquer = 999
 $O(n)O(1)$: Sold on day 274 for 100. Bought on day 24 for 50. Profit = $100 - 50 = 50$
 $O(n)O(1) = 1000$ numDivide = 0 numConquer = 999

 --- Array length is 1000
 $O(n^2)O(1)$: Sold on day 954 for 100. Bought on day 935 for 50. Profit = $100 - 50 = 50$
 $O(n^2)O(1) = 1000000$ numDivide = 0 numConquer = 499500
 $O(n \log n)O(\log n)$: Sold on day 105 for 100. Bought on day 64 for 50. Profit = $100 - 50 = 50$
 $O(n \log n)O(\log n) = 9965$ numDivide = 999 numConquer = 5044
 $O(n)O(\log n)$: Sold on day 105 for 100. Bought on day 64 for 50. Profit = $100 - 50 = 50$
 $O(n)O(\log n) = 1000$ numDivide = 999 numConquer = 999
 $O(n)O(1)$: Sold on day 105 for 100. Bought on day 64 for 50. Profit = $100 - 50 = 50$
 $O(n)O(1) = 1000$ numDivide = 0 numConquer = 999

 --- Array length is 1000
 $O(n^2)O(1)$: Sold on day 996 for 100. Bought on day 973 for 50. Profit = $100 - 50 = 50$
 $O(n^2)O(1) = 1000000$ numDivide = 0 numConquer = 499500
 $O(n \log n)O(\log n)$: Sold on day 57 for 100. Bought on day 12 for 50. Profit = $100 - 50 = 50$
 $O(n \log n)O(\log n) = 9965$ numDivide = 999 numConquer = 5044
 $O(n)O(\log n)$: Sold on day 57 for 100. Bought on day 25 for 50. Profit = $100 - 50 = 50$
 $O(n)O(\log n) = 1000$ numDivide = 999 numConquer = 999
 $O(n)O(1)$: Sold on day 57 for 100. Bought on day 12 for 50. Profit = $100 - 50 = 50$
 $O(n)O(1) = 1000$ numDivide = 0 numConquer = 999

 --- Array length is 1000
 $O(n^2)O(1)$: Sold on day 918 for 100. Bought on day 910 for 50. Profit = $100 - 50 = 50$
 $O(n^2)O(1) = 1000000$ numDivide = 0 numConquer = 499500
 $O(n \log n)O(\log n)$: Sold on day 54 for 100. Bought on day 45 for 50. Profit = $100 - 50 = 50$
 $O(n \log n)O(\log n) = 9965$ numDivide = 999 numConquer = 5044
 $O(n)O(\log n)$: Sold on day 54 for 100. Bought on day 45 for 50. Profit = $100 - 50 = 50$
 $O(n)O(\log n) = 1000$ numDivide = 999 numConquer = 999
 $O(n)O(1)$: Sold on day 54 for 100. Bought on day 45 for 50. Profit = $100 - 50 = 50$
 $O(n)O(1) = 1000$ numDivide = 0 numConquer = 999

 --- Array length is 1000
 $O(n^2)O(1)$: Sold on day 964 for 100. Bought on day 944 for 50. Profit = $100 - 50 = 50$
 $O(n^2)O(1) = 1000000$ numDivide = 0 numConquer = 499500
 $O(n \log n)O(\log n)$: Sold on day 88 for 100. Bought on day 43 for 50. Profit = $100 - 50 = 50$
 $O(n \log n)O(\log n) = 9965$ numDivide = 999 numConquer = 5044
 $O(n)O(\log n)$: Sold on day 88 for 100. Bought on day 43 for 50. Profit = $100 - 50 = 50$
 $O(n)O(\log n) = 1000$ numDivide = 999 numConquer = 999
 $O(n)O(1)$: Sold on day 88 for 100. Bought on day 43 for 50. Profit = $100 - 50 = 50$
 $O(n)O(1) = 1000$ numDivide = 0 numConquer = 999

--- Array length is 1000
O(n^2)O(1): Sold on day 782 for 100. Bought on day 766 for 50. Profit = 100-50 = 50
O(n^2)O(1) = 1000000 numDivide = 0 numConquer = 499500
O(nlogn)O(logn): Sold on day 123 for 100. Bought on day 116 for 50. Profit = 100-50 = 50
O(nlogn)O(logn) = 9965 numDivide = 999 numConquer = 5044
O(n)O(logn): Sold on day 123 for 100. Bought on day 116 for 50. Profit = 100-50 = 50
O(n)O(logn) = 1000 numDivide = 999 numConquer = 999
O(n)O(1): Sold on day 66 for 100. Bought on day 13 for 50. Profit = 100-50 = 50
O(n)O(1) = 1000 numDivide = 0 numConquer = 999

--- Array length is 1000
O(n^2)O(1): Sold on day 996 for 100. Bought on day 992 for 50. Profit = 100-50 = 50
O(n^2)O(1) = 1000000 numDivide = 0 numConquer = 499500
O(nlogn)O(logn): Sold on day 60 for 100. Bought on day 59 for 50. Profit = 100-50 = 50
O(nlogn)O(logn) = 9965 numDivide = 999 numConquer = 5044
O(n)O(logn): Sold on day 60 for 100. Bought on day 59 for 50. Profit = 100-50 = 50
O(n)O(logn) = 1000 numDivide = 999 numConquer = 999
O(n)O(1): Sold on day 60 for 100. Bought on day 2 for 50. Profit = 100-50 = 50
O(n)O(1) = 1000 numDivide = 0 numConquer = 999

--- Array length is 1000
O(n^2)O(1): Sold on day 969 for 100. Bought on day 948 for 50. Profit = 100-50 = 50
O(n^2)O(1) = 1000000 numDivide = 0 numConquer = 499500
O(nlogn)O(logn): Sold on day 115 for 100. Bought on day 112 for 50. Profit = 100-50 = 50
O(nlogn)O(logn) = 9965 numDivide = 999 numConquer = 5044
O(n)O(logn): Sold on day 115 for 100. Bought on day 112 for 50. Profit = 100-50 = 50
O(n)O(logn) = 1000 numDivide = 999 numConquer = 999
O(n)O(1): Sold on day 64 for 100. Bought on day 48 for 50. Profit = 100-50 = 50
O(n)O(1) = 1000 numDivide = 0 numConquer = 999

--- Array length is 1000
O(n^2)O(1): Sold on day 935 for 100. Bought on day 902 for 50. Profit = 100-50 = 50
O(n^2)O(1) = 1000000 numDivide = 0 numConquer = 499500
O(nlogn)O(logn): Sold on day 223 for 100. Bought on day 221 for 50. Profit = 100-50 = 50
O(nlogn)O(logn) = 9965 numDivide = 999 numConquer = 5044
O(n)O(logn): Sold on day 223 for 100. Bought on day 221 for 50. Profit = 100-50 = 50
O(n)O(logn) = 1000 numDivide = 999 numConquer = 999
O(n)O(1): Sold on day 160 for 100. Bought on day 59 for 50. Profit = 100-50 = 50
O(n)O(1) = 1000 numDivide = 0 numConquer = 999

--- Array length is 1000
O(n^2)O(1): Sold on day 983 for 100. Bought on day 907 for 50. Profit = 100-50 = 50
O(n^2)O(1) = 1000000 numDivide = 0 numConquer = 499500
O(nlogn)O(logn): Sold on day 74 for 100. Bought on day 72 for 50. Profit = 100-50 = 50
O(nlogn)O(logn) = 9965 numDivide = 999 numConquer = 5044
O(n)O(logn): Sold on day 74 for 100. Bought on day 72 for 50. Profit = 100-50 = 50
O(n)O(logn) = 1000 numDivide = 999 numConquer = 999
O(n)O(1): Sold on day 74 for 100. Bought on day 8 for 50. Profit = 100-50 = 50
O(n)O(1) = 1000 numDivide = 0 numConquer = 999

--- Array length is 1000
O(n^2)O(1): Sold on day 963 for 100. Bought on day 945 for 50. Profit = 100-50 = 50
O(n^2)O(1) = 1000000 numDivide = 0 numConquer = 499500
O(nlogn)O(logn): Sold on day 86 for 100. Bought on day 76 for 50. Profit = 100-50 = 50

$O(n \log n)O(\log n)$: 9965 numDivide = 999 numConquer = 5044
 $O(n)O(\log n)$: Sold on day 86 for 100. Bought on day 76 for 50. Profit = 100-50 = 50
 $O(n)O(\log n)$ = 1000 numDivide = 999 numConquer = 999
 $O(n)O(1)$: Sold on day 86 for 100. Bought on day 76 for 50. Profit = 100-50 = 50
 $O(n)O(1)$ = 1000 numDivide = 0 numConquer = 999

--- Array length is 1000

$O(n^2)O(1)$: Sold on day 870 for 100. Bought on day 806 for 50. Profit = 100-50 = 50
 $O(n^2)O(1)$ = 1000000 numDivide = 0 numConquer = 499500
 $O(n \log n)O(\log n)$: Sold on day 22 for 100. Bought on day 9 for 50. Profit = 100-50 = 50
 $O(n \log n)O(\log n)$ = 9965 numDivide = 999 numConquer = 5044
 $O(n)O(\log n)$: Sold on day 22 for 100. Bought on day 9 for 50. Profit = 100-50 = 50
 $O(n)O(\log n)$ = 1000 numDivide = 999 numConquer = 999
 $O(n)O(1)$: Sold on day 22 for 100. Bought on day 9 for 50. Profit = 100-50 = 50
 $O(n)O(1)$ = 1000 numDivide = 0 numConquer = 999

--- Array length is 1000

$O(n^2)O(1)$: Sold on day 981 for 100. Bought on day 954 for 50. Profit = 100-50 = 50
 $O(n^2)O(1)$ = 1000000 numDivide = 0 numConquer = 499500
 $O(n \log n)O(\log n)$: Sold on day 168 for 100. Bought on day 48 for 50. Profit = 100-50 = 50
 $O(n \log n)O(\log n)$ = 9965 numDivide = 999 numConquer = 5044
 $O(n)O(\log n)$: Sold on day 168 for 100. Bought on day 64 for 50. Profit = 100-50 = 50
 $O(n)O(\log n)$ = 1000 numDivide = 999 numConquer = 999
 $O(n)O(1)$: Sold on day 161 for 100. Bought on day 48 for 50. Profit = 100-50 = 50
 $O(n)O(1)$ = 1000 numDivide = 0 numConquer = 999

--- Array length is 1000

$O(n^2)O(1)$: Sold on day 925 for 100. Bought on day 680 for 50. Profit = 100-50 = 50
 $O(n^2)O(1)$ = 1000000 numDivide = 0 numConquer = 499500
 $O(n \log n)O(\log n)$: Sold on day 45 for 100. Bought on day 21 for 50. Profit = 100-50 = 50
 $O(n \log n)O(\log n)$ = 9965 numDivide = 999 numConquer = 5044
 $O(n)O(\log n)$: Sold on day 45 for 100. Bought on day 21 for 50. Profit = 100-50 = 50
 $O(n)O(\log n)$ = 1000 numDivide = 999 numConquer = 999
 $O(n)O(1)$: Sold on day 45 for 100. Bought on day 21 for 50. Profit = 100-50 = 50
 $O(n)O(1)$ = 1000 numDivide = 0 numConquer = 999

--- Array length is 1000

$O(n^2)O(1)$: Sold on day 950 for 100. Bought on day 841 for 50. Profit = 100-50 = 50
 $O(n^2)O(1)$ = 1000000 numDivide = 0 numConquer = 499500
 $O(n \log n)O(\log n)$: Sold on day 204 for 100. Bought on day 65 for 50. Profit = 100-50 = 50
 $O(n \log n)O(\log n)$ = 9965 numDivide = 999 numConquer = 5044
 $O(n)O(\log n)$: Sold on day 204 for 100. Bought on day 79 for 50. Profit = 100-50 = 50
 $O(n)O(\log n)$ = 1000 numDivide = 999 numConquer = 999
 $O(n)O(1)$: Sold on day 147 for 100. Bought on day 65 for 50. Profit = 100-50 = 50
 $O(n)O(1)$ = 1000 numDivide = 0 numConquer = 999

--- Array length is 1000

$O(n^2)O(1)$: Sold on day 942 for 100. Bought on day 925 for 50. Profit = 100-50 = 50
 $O(n^2)O(1)$ = 1000000 numDivide = 0 numConquer = 499500
 $O(n \log n)O(\log n)$: Sold on day 56 for 100. Bought on day 35 for 50. Profit = 100-50 = 50
 $O(n \log n)O(\log n)$ = 9965 numDivide = 999 numConquer = 5044
 $O(n)O(\log n)$: Sold on day 56 for 100. Bought on day 35 for 50. Profit = 100-50 = 50
 $O(n)O(\log n)$ = 1000 numDivide = 999 numConquer = 999
 $O(n)O(1)$: Sold on day 56 for 100. Bought on day 9 for 50. Profit = 100-50 = 50

$O(n)O(1) = 1000$ numDivide = 0 numConquer = 999

--- Array length is 1000

$O(n^2)O(1)$: Sold on day 969 for 100. Bought on day 880 for 50. Profit = $100 - 50 = 50$

$O(n^2)O(1) = 1000000$ numDivide = 0 numConquer = 499500

$O(n \log n)O(\log n)$: Sold on day 113 for 100. Bought on day 95 for 50. Profit = $100 - 50 = 50$

$O(n \log n)O(\log n) = 9965$ numDivide = 999 numConquer = 5044

$O(n)O(\log n)$: Sold on day 113 for 100. Bought on day 95 for 50. Profit = $100 - 50 = 50$

$O(n)O(\log n) = 1000$ numDivide = 999 numConquer = 999

$O(n)O(1)$: Sold on day 113 for 100. Bought on day 20 for 50. Profit = $100 - 50 = 50$

$O(n)O(1) = 1000$ numDivide = 0 numConquer = 999

--- Array length is 1000

$O(n^2)O(1)$: Sold on day 944 for 100. Bought on day 854 for 50. Profit = $100 - 50 = 50$

$O(n^2)O(1) = 1000000$ numDivide = 0 numConquer = 499500

$O(n \log n)O(\log n)$: Sold on day 36 for 100. Bought on day 19 for 50. Profit = $100 - 50 = 50$

$O(n \log n)O(\log n) = 9965$ numDivide = 999 numConquer = 5044

$O(n)O(\log n)$: Sold on day 36 for 100. Bought on day 19 for 50. Profit = $100 - 50 = 50$

$O(n)O(\log n) = 1000$ numDivide = 999 numConquer = 999

$O(n)O(1)$: Sold on day 36 for 100. Bought on day 19 for 50. Profit = $100 - 50 = 50$

$O(n)O(1) = 1000$ numDivide = 0 numConquer = 999

--- Array length is 1000

$O(n^2)O(1)$: Sold on day 957 for 100. Bought on day 810 for 50. Profit = $100 - 50 = 50$

$O(n^2)O(1) = 1000000$ numDivide = 0 numConquer = 499500

$O(n \log n)O(\log n)$: Sold on day 105 for 100. Bought on day 45 for 50. Profit = $100 - 50 = 50$

$O(n \log n)O(\log n) = 9965$ numDivide = 999 numConquer = 5044

$O(n)O(\log n)$: Sold on day 105 for 100. Bought on day 56 for 50. Profit = $100 - 50 = 50$

$O(n)O(\log n) = 1000$ numDivide = 999 numConquer = 999

$O(n)O(1)$: Sold on day 67 for 100. Bought on day 45 for 50. Profit = $100 - 50 = 50$

$O(n)O(1) = 1000$ numDivide = 0 numConquer = 999

--- Array length is 1000

$O(n^2)O(1)$: Sold on day 971 for 100. Bought on day 862 for 50. Profit = $100 - 50 = 50$

$O(n^2)O(1) = 1000000$ numDivide = 0 numConquer = 499500

$O(n \log n)O(\log n)$: Sold on day 162 for 100. Bought on day 143 for 50. Profit = $100 - 50 = 50$

$O(n \log n)O(\log n) = 9965$ numDivide = 999 numConquer = 5044

$O(n)O(\log n)$: Sold on day 162 for 100. Bought on day 143 for 50. Profit = $100 - 50 = 50$

$O(n)O(\log n) = 1000$ numDivide = 999 numConquer = 999

$O(n)O(1)$: Sold on day 162 for 100. Bought on day 143 for 50. Profit = $100 - 50 = 50$

$O(n)O(1) = 1000$ numDivide = 0 numConquer = 999

--- Array length is 1000

$O(n^2)O(1)$: Sold on day 984 for 100. Bought on day 957 for 50. Profit = $100 - 50 = 50$

$O(n^2)O(1) = 1000000$ numDivide = 0 numConquer = 499500

$O(n \log n)O(\log n)$: Sold on day 120 for 100. Bought on day 79 for 50. Profit = $100 - 50 = 50$

$O(n \log n)O(\log n) = 9965$ numDivide = 999 numConquer = 5044

$O(n)O(\log n)$: Sold on day 120 for 100. Bought on day 79 for 50. Profit = $100 - 50 = 50$

$O(n)O(\log n) = 1000$ numDivide = 999 numConquer = 999

$O(n)O(1)$: Sold on day 119 for 100. Bought on day 79 for 50. Profit = $100 - 50 = 50$

$O(n)O(1) = 1000$ numDivide = 0 numConquer = 999

--- Array length is 1000

$O(n^2)O(1)$: Sold on day 986 for 100. Bought on day 950 for 50. Profit = $100 - 50 = 50$

$O(n^2)O(1)$ = 1000000 numDivide = 0 numConquer = 499500
 $O(n \log n)O(\log n)$: Sold on day 39 for 100. Bought on day 5 for 50. Profit = 100-50 = 50
 $O(n \log n)O(\log n)$ = 9965 numDivide = 999 numConquer = 5044
 $O(n)O(\log n)$: Sold on day 39 for 100. Bought on day 5 for 50. Profit = 100-50 = 50
 $O(n)O(\log n)$ = 1000 numDivide = 999 numConquer = 999
 $O(n)O(1)$: Sold on day 39 for 100. Bought on day 5 for 50. Profit = 100-50 = 50
 $O(n)O(1)$ = 1000 numDivide = 0 numConquer = 999

--- Array length is 1000

$O(n^2)O(1)$: Sold on day 979 for 100. Bought on day 952 for 50. Profit = 100-50 = 50
 $O(n^2)O(1)$ = 1000000 numDivide = 0 numConquer = 499500
 $O(n \log n)O(\log n)$: Sold on day 109 for 100. Bought on day 3 for 50. Profit = 100-50 = 50
 $O(n \log n)O(\log n)$ = 9965 numDivide = 999 numConquer = 5044
 $O(n)O(\log n)$: Sold on day 109 for 100. Bought on day 3 for 50. Profit = 100-50 = 50
 $O(n)O(\log n)$ = 1000 numDivide = 999 numConquer = 999
 $O(n)O(1)$: Sold on day 98 for 100. Bought on day 3 for 50. Profit = 100-50 = 50
 $O(n)O(1)$ = 1000 numDivide = 0 numConquer = 999

--- Array length is 1000

$O(n^2)O(1)$: Sold on day 814 for 100. Bought on day 782 for 50. Profit = 100-50 = 50
 $O(n^2)O(1)$ = 1000000 numDivide = 0 numConquer = 499500
 $O(n \log n)O(\log n)$: Sold on day 165 for 100. Bought on day 61 for 50. Profit = 100-50 = 50
 $O(n \log n)O(\log n)$ = 9965 numDivide = 999 numConquer = 5044
 $O(n)O(\log n)$: Sold on day 165 for 100. Bought on day 96 for 50. Profit = 100-50 = 50
 $O(n)O(\log n)$ = 1000 numDivide = 999 numConquer = 999
 $O(n)O(1)$: Sold on day 164 for 100. Bought on day 61 for 50. Profit = 100-50 = 50
 $O(n)O(1)$ = 1000 numDivide = 0 numConquer = 999

--- Array length is 1000

$O(n^2)O(1)$: Sold on day 771 for 100. Bought on day 743 for 50. Profit = 100-50 = 50
 $O(n^2)O(1)$ = 1000000 numDivide = 0 numConquer = 499500
 $O(n \log n)O(\log n)$: Sold on day 179 for 100. Bought on day 133 for 50. Profit = 100-50 = 50
 $O(n \log n)O(\log n)$ = 9965 numDivide = 999 numConquer = 5044
 $O(n)O(\log n)$: Sold on day 179 for 100. Bought on day 133 for 50. Profit = 100-50 = 50
 $O(n)O(\log n)$ = 1000 numDivide = 999 numConquer = 999
 $O(n)O(1)$: Sold on day 179 for 100. Bought on day 99 for 50. Profit = 100-50 = 50
 $O(n)O(1)$ = 1000 numDivide = 0 numConquer = 999

--- Array length is 1000

$O(n^2)O(1)$: Sold on day 904 for 100. Bought on day 763 for 50. Profit = 100-50 = 50
 $O(n^2)O(1)$ = 1000000 numDivide = 0 numConquer = 499500
 $O(n \log n)O(\log n)$: Sold on day 48 for 100. Bought on day 33 for 50. Profit = 100-50 = 50
 $O(n \log n)O(\log n)$ = 9965 numDivide = 999 numConquer = 5044
 $O(n)O(\log n)$: Sold on day 48 for 100. Bought on day 37 for 50. Profit = 100-50 = 50
 $O(n)O(\log n)$ = 1000 numDivide = 999 numConquer = 999
 $O(n)O(1)$: Sold on day 48 for 100. Bought on day 27 for 50. Profit = 100-50 = 50
 $O(n)O(1)$ = 1000 numDivide = 0 numConquer = 999

--- Array length is 1000

$O(n^2)O(1)$: Sold on day 983 for 100. Bought on day 980 for 50. Profit = 100-50 = 50
 $O(n^2)O(1)$ = 1000000 numDivide = 0 numConquer = 499500
 $O(n \log n)O(\log n)$: Sold on day 89 for 100. Bought on day 82 for 50. Profit = 100-50 = 50
 $O(n \log n)O(\log n)$ = 9965 numDivide = 999 numConquer = 5044
 $O(n)O(\log n)$: Sold on day 89 for 100. Bought on day 84 for 50. Profit = 100-50 = 50

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O(n)O(logn) = 1000 numDivide = 999 numConquer = 999
O(n)O(1): Sold on day 89 for 100. Bought on day 82 for 50. Profit = 100-50 = 50
O(n)O(1) = 1000 numDivide = 0 numConquer = 999
-----
--- Array length is 1000
O(n^2)O(1): Sold on day 968 for 100. Bought on day 910 for 50. Profit = 100-50 = 50
O(n^2)O(1) = 1000000 numDivide = 0 numConquer = 499500
O(nlogn)O(logn): Sold on day 21 for 100. Bought on day 9 for 50. Profit = 100-50 = 50
O(nlogn)O(logn) = 9965 numDivide = 999 numConquer = 5044
O(n)O(logn): Sold on day 21 for 100. Bought on day 9 for 50. Profit = 100-50 = 50
O(n)O(logn) = 1000 numDivide = 999 numConquer = 999
O(n)O(1): Sold on day 21 for 100. Bought on day 9 for 50. Profit = 100-50 = 50
O(n)O(1) = 1000 numDivide = 0 numConquer = 999
-----
--- Array length is 1000
O(n^2)O(1): Sold on day 924 for 100. Bought on day 913 for 50. Profit = 100-50 = 50
O(n^2)O(1) = 1000000 numDivide = 0 numConquer = 499500
O(nlogn)O(logn): Sold on day 26 for 100. Bought on day 15 for 50. Profit = 100-50 = 50
O(nlogn)O(logn) = 9965 numDivide = 999 numConquer = 5044
O(n)O(logn): Sold on day 26 for 100. Bought on day 15 for 50. Profit = 100-50 = 50
O(n)O(logn) = 1000 numDivide = 999 numConquer = 999
O(n)O(1): Sold on day 16 for 100. Bought on day 15 for 50. Profit = 100-50 = 50
O(n)O(1) = 1000 numDivide = 0 numConquer = 999
-----
--- Array length is 1000
O(n^2)O(1): Sold on day 958 for 100. Bought on day 937 for 50. Profit = 100-50 = 50
O(n^2)O(1) = 1000000 numDivide = 0 numConquer = 499500
O(nlogn)O(logn): Sold on day 103 for 100. Bought on day 9 for 50. Profit = 100-50 = 50
O(nlogn)O(logn) = 9965 numDivide = 999 numConquer = 5044
O(n)O(logn): Sold on day 103 for 100. Bought on day 9 for 50. Profit = 100-50 = 50
O(n)O(logn) = 1000 numDivide = 999 numConquer = 999
O(n)O(1): Sold on day 103 for 100. Bought on day 9 for 50. Profit = 100-50 = 50
O(n)O(1) = 1000 numDivide = 0 numConquer = 999
-----
--- Array length is 1000
O(n^2)O(1): Sold on day 994 for 100. Bought on day 954 for 50. Profit = 100-50 = 50
O(n^2)O(1) = 1000000 numDivide = 0 numConquer = 499500
O(nlogn)O(logn): Sold on day 114 for 100. Bought on day 83 for 50. Profit = 100-50 = 50
O(nlogn)O(logn) = 9965 numDivide = 999 numConquer = 5044
O(n)O(logn): Sold on day 114 for 100. Bought on day 83 for 50. Profit = 100-50 = 50
O(n)O(logn) = 1000 numDivide = 999 numConquer = 999
O(n)O(1): Sold on day 114 for 100. Bought on day 83 for 50. Profit = 100-50 = 50
O(n)O(1) = 1000 numDivide = 0 numConquer = 999
-----
--- Array length is 1000
O(n^2)O(1): Sold on day 963 for 100. Bought on day 958 for 50. Profit = 100-50 = 50
O(n^2)O(1) = 1000000 numDivide = 0 numConquer = 499500
O(nlogn)O(logn): Sold on day 239 for 100. Bought on day 194 for 50. Profit = 100-50 = 50
O(nlogn)O(logn) = 9965 numDivide = 999 numConquer = 5044
O(n)O(logn): Sold on day 239 for 100. Bought on day 194 for 50. Profit = 100-50 = 50
O(n)O(logn) = 1000 numDivide = 999 numConquer = 999
O(n)O(1): Sold on day 170 for 100. Bought on day 44 for 50. Profit = 100-50 = 50
O(n)O(1) = 1000 numDivide = 0 numConquer = 999
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--- Array length is 1000

$O(n^2)O(1)$: Sold on day 993 for 100. Bought on day 938 for 50. Profit = $100-50 = 50$
 $O(n^2)O(1) = 1000000$ numDivide = 0 numConquer = 499500
 $O(n\log n)O(\log n)$: Sold on day 27 for 100. Bought on day 2 for 50. Profit = $100-50 = 50$
 $O(n\log n)O(\log n) = 9965$ numDivide = 999 numConquer = 5044
 $O(n)O(\log n)$: Sold on day 27 for 100. Bought on day 6 for 50. Profit = $100-50 = 50$
 $O(n)O(\log n) = 1000$ numDivide = 999 numConquer = 999
 $O(n)O(1)$: Sold on day 26 for 100. Bought on day 2 for 50. Profit = $100-50 = 50$
 $O(n)O(1) = 1000$ numDivide = 0 numConquer = 999

--- Array length is 1000

$O(n^2)O(1)$: Sold on day 940 for 100. Bought on day 889 for 50. Profit = $100-50 = 50$
 $O(n^2)O(1) = 1000000$ numDivide = 0 numConquer = 499500
 $O(n\log n)O(\log n)$: Sold on day 109 for 100. Bought on day 96 for 50. Profit = $100-50 = 50$
 $O(n\log n)O(\log n) = 9965$ numDivide = 999 numConquer = 5044
 $O(n)O(\log n)$: Sold on day 109 for 100. Bought on day 96 for 50. Profit = $100-50 = 50$
 $O(n)O(\log n) = 1000$ numDivide = 999 numConquer = 999
 $O(n)O(1)$: Sold on day 109 for 100. Bought on day 57 for 50. Profit = $100-50 = 50$
 $O(n)O(1) = 1000$ numDivide = 0 numConquer = 999

--- Array length is 1000

$O(n^2)O(1)$: Sold on day 989 for 100. Bought on day 942 for 50. Profit = $100-50 = 50$
 $O(n^2)O(1) = 1000000$ numDivide = 0 numConquer = 499500
 $O(n\log n)O(\log n)$: Sold on day 155 for 100. Bought on day 150 for 50. Profit = $100-50 = 50$
 $O(n\log n)O(\log n) = 9965$ numDivide = 999 numConquer = 5044
 $O(n)O(\log n)$: Sold on day 155 for 100. Bought on day 150 for 50. Profit = $100-50 = 50$
 $O(n)O(\log n) = 1000$ numDivide = 999 numConquer = 999
 $O(n)O(1)$: Sold on day 155 for 100. Bought on day 150 for 50. Profit = $100-50 = 50$
 $O(n)O(1) = 1000$ numDivide = 0 numConquer = 999

--- Array length is 1000

$O(n^2)O(1)$: Sold on day 895 for 100. Bought on day 841 for 50. Profit = $100-50 = 50$
 $O(n^2)O(1) = 1000000$ numDivide = 0 numConquer = 499500
 $O(n\log n)O(\log n)$: Sold on day 103 for 100. Bought on day 44 for 50. Profit = $100-50 = 50$
 $O(n\log n)O(\log n) = 9965$ numDivide = 999 numConquer = 5044
 $O(n)O(\log n)$: Sold on day 103 for 100. Bought on day 44 for 50. Profit = $100-50 = 50$
 $O(n)O(\log n) = 1000$ numDivide = 999 numConquer = 999
 $O(n)O(1)$: Sold on day 86 for 100. Bought on day 44 for 50. Profit = $100-50 = 50$
 $O(n)O(1) = 1000$ numDivide = 0 numConquer = 999

--- Array length is 1000

$O(n^2)O(1)$: Sold on day 889 for 100. Bought on day 883 for 50. Profit = $100-50 = 50$
 $O(n^2)O(1) = 1000000$ numDivide = 0 numConquer = 499500
 $O(n\log n)O(\log n)$: Sold on day 59 for 100. Bought on day 57 for 50. Profit = $100-50 = 50$
 $O(n\log n)O(\log n) = 9965$ numDivide = 999 numConquer = 5044
 $O(n)O(\log n)$: Sold on day 59 for 100. Bought on day 57 for 50. Profit = $100-50 = 50$
 $O(n)O(\log n) = 1000$ numDivide = 999 numConquer = 999
 $O(n)O(1)$: Sold on day 59 for 100. Bought on day 57 for 50. Profit = $100-50 = 50$
 $O(n)O(1) = 1000$ numDivide = 0 numConquer = 999

--- Array length is 1000

$O(n^2)O(1)$: Sold on day 995 for 100. Bought on day 959 for 50. Profit = $100-50 = 50$
 $O(n^2)O(1) = 1000000$ numDivide = 0 numConquer = 499500
 $O(n\log n)O(\log n)$: Sold on day 232 for 100. Bought on day 157 for 50. Profit = $100-50 = 50$

$O(n)O(1) = 1000$ numDivide = 0 numConquer = 999

--- Array length is 1000

$O(n^2)O(1)$: Sold on day 928 for 100. Bought on day 910 for 50. Profit = $100 - 50 = 50$

$O(n^2)O(1) = 1000000$ numDivide = 0 numConquer = 499500

$O(n \log n)O(\log n)$: Sold on day 85 for 100. Bought on day 74 for 50. Profit = $100 - 50 = 50$

$O(n \log n)O(\log n) = 9965$ numDivide = 999 numConquer = 5044

$O(n)O(\log n)$: Sold on day 85 for 100. Bought on day 74 for 50. Profit = $100 - 50 = 50$

$O(n)O(\log n) = 1000$ numDivide = 999 numConquer = 999

$O(n)O(1)$: Sold on day 85 for 100. Bought on day 74 for 50. Profit = $100 - 50 = 50$

$O(n)O(1) = 1000$ numDivide = 0 numConquer = 999

--- Array length is 1000

$O(n^2)O(1)$: Sold on day 905 for 100. Bought on day 867 for 50. Profit = $100 - 50 = 50$

$O(n^2)O(1) = 1000000$ numDivide = 0 numConquer = 499500

$O(n \log n)O(\log n)$: Sold on day 24 for 100. Bought on day 21 for 50. Profit = $100 - 50 = 50$

$O(n \log n)O(\log n) = 9965$ numDivide = 999 numConquer = 5044

$O(n)O(\log n)$: Sold on day 24 for 100. Bought on day 21 for 50. Profit = $100 - 50 = 50$

$O(n)O(\log n) = 1000$ numDivide = 999 numConquer = 999

$O(n)O(1)$: Sold on day 24 for 100. Bought on day 0 for 50. Profit = $100 - 50 = 50$

$O(n)O(1) = 1000$ numDivide = 0 numConquer = 999

--- Array length is 1000

$O(n^2)O(1)$: Sold on day 997 for 100. Bought on day 854 for 50. Profit = $100 - 50 = 50$

$O(n^2)O(1) = 1000000$ numDivide = 0 numConquer = 499500

$O(n \log n)O(\log n)$: Sold on day 47 for 100. Bought on day 34 for 50. Profit = $100 - 50 = 50$

$O(n \log n)O(\log n) = 9965$ numDivide = 999 numConquer = 5044

$O(n)O(\log n)$: Sold on day 47 for 100. Bought on day 34 for 50. Profit = $100 - 50 = 50$

$O(n)O(\log n) = 1000$ numDivide = 999 numConquer = 999

$O(n)O(1)$: Sold on day 47 for 100. Bought on day 4 for 50. Profit = $100 - 50 = 50$

$O(n)O(1) = 1000$ numDivide = 0 numConquer = 999

--- Array length is 1000

$O(n^2)O(1)$: Sold on day 977 for 100. Bought on day 945 for 50. Profit = $100 - 50 = 50$

$O(n^2)O(1) = 1000000$ numDivide = 0 numConquer = 499500

$O(n \log n)O(\log n)$: Sold on day 38 for 100. Bought on day 18 for 50. Profit = $100 - 50 = 50$

$O(n \log n)O(\log n) = 9965$ numDivide = 999 numConquer = 5044

$O(n)O(\log n)$: Sold on day 38 for 100. Bought on day 18 for 50. Profit = $100 - 50 = 50$

$O(n)O(\log n) = 1000$ numDivide = 999 numConquer = 999

$O(n)O(1)$: Sold on day 38 for 100. Bought on day 18 for 50. Profit = $100 - 50 = 50$

$O(n)O(1) = 1000$ numDivide = 0 numConquer = 999

--- Array length is 1000

$O(n^2)O(1)$: Sold on day 790 for 100. Bought on day 776 for 50. Profit = $100 - 50 = 50$

$O(n^2)O(1) = 1000000$ numDivide = 0 numConquer = 499500

$O(n \log n)O(\log n)$: Sold on day 123 for 100. Bought on day 79 for 50. Profit = $100 - 50 = 50$

$O(n \log n)O(\log n) = 9965$ numDivide = 999 numConquer = 5044

$O(n)O(\log n)$: Sold on day 123 for 100. Bought on day 79 for 50. Profit = $100 - 50 = 50$

$O(n)O(\log n) = 1000$ numDivide = 999 numConquer = 999

$O(n)O(1)$: Sold on day 77 for 100. Bought on day 7 for 50. Profit = $100 - 50 = 50$

$O(n)O(1) = 1000$ numDivide = 0 numConquer = 999

--- Array length is 1000

$O(n^2)O(1)$: Sold on day 955 for 100. Bought on day 946 for 50. Profit = $100 - 50 = 50$

$O(n^2)O(1)$ = 1000000 numDivide = 0 numConquer = 499500
 $O(n \log n)O(\log n)$: Sold on day 38 for 100. Bought on day 33 for 50. Profit = 100-50 = 50
 $O(n \log n)O(\log n)$ = 9965 numDivide = 999 numConquer = 5044
 $O(n)O(\log n)$: Sold on day 38 for 100. Bought on day 33 for 50. Profit = 100-50 = 50
 $O(n)O(\log n)$ = 1000 numDivide = 999 numConquer = 999
 $O(n)O(1)$: Sold on day 38 for 100. Bought on day 33 for 50. Profit = 100-50 = 50
 $O(n)O(1)$ = 1000 numDivide = 0 numConquer = 999

--- Array length is 1000

$O(n^2)O(1)$: Sold on day 987 for 100. Bought on day 924 for 50. Profit = 100-50 = 50
 $O(n^2)O(1)$ = 1000000 numDivide = 0 numConquer = 499500
 $O(n \log n)O(\log n)$: Sold on day 52 for 100. Bought on day 49 for 50. Profit = 100-50 = 50
 $O(n \log n)O(\log n)$ = 9965 numDivide = 999 numConquer = 5044
 $O(n)O(\log n)$: Sold on day 52 for 100. Bought on day 49 for 50. Profit = 100-50 = 50
 $O(n)O(\log n)$ = 1000 numDivide = 999 numConquer = 999
 $O(n)O(1)$: Sold on day 52 for 100. Bought on day 49 for 50. Profit = 100-50 = 50
 $O(n)O(1)$ = 1000 numDivide = 0 numConquer = 999

--- Array length is 1000

$O(n^2)O(1)$: Sold on day 933 for 100. Bought on day 852 for 50. Profit = 100-50 = 50
 $O(n^2)O(1)$ = 1000000 numDivide = 0 numConquer = 499500
 $O(n \log n)O(\log n)$: Sold on day 224 for 100. Bought on day 219 for 50. Profit = 100-50 = 50
 $O(n \log n)O(\log n)$ = 9965 numDivide = 999 numConquer = 5044
 $O(n)O(\log n)$: Sold on day 224 for 100. Bought on day 219 for 50. Profit = 100-50 = 50
 $O(n)O(\log n)$ = 1000 numDivide = 999 numConquer = 999
 $O(n)O(1)$: Sold on day 224 for 100. Bought on day 78 for 50. Profit = 100-50 = 50
 $O(n)O(1)$ = 1000 numDivide = 0 numConquer = 999

--- Array length is 1000

$O(n^2)O(1)$: Sold on day 915 for 100. Bought on day 829 for 50. Profit = 100-50 = 50
 $O(n^2)O(1)$ = 1000000 numDivide = 0 numConquer = 499500
 $O(n \log n)O(\log n)$: Sold on day 57 for 100. Bought on day 4 for 50. Profit = 100-50 = 50
 $O(n \log n)O(\log n)$ = 9965 numDivide = 999 numConquer = 5044
 $O(n)O(\log n)$: Sold on day 57 for 100. Bought on day 4 for 50. Profit = 100-50 = 50
 $O(n)O(\log n)$ = 1000 numDivide = 999 numConquer = 999
 $O(n)O(1)$: Sold on day 57 for 100. Bought on day 4 for 50. Profit = 100-50 = 50
 $O(n)O(1)$ = 1000 numDivide = 0 numConquer = 999

--- Array length is 1000

$O(n^2)O(1)$: Sold on day 915 for 100. Bought on day 907 for 50. Profit = 100-50 = 50
 $O(n^2)O(1)$ = 1000000 numDivide = 0 numConquer = 499500
 $O(n \log n)O(\log n)$: Sold on day 112 for 100. Bought on day 42 for 50. Profit = 100-50 = 50
 $O(n \log n)O(\log n)$ = 9965 numDivide = 999 numConquer = 5044
 $O(n)O(\log n)$: Sold on day 112 for 100. Bought on day 52 for 50. Profit = 100-50 = 50
 $O(n)O(\log n)$ = 1000 numDivide = 999 numConquer = 999
 $O(n)O(1)$: Sold on day 92 for 100. Bought on day 42 for 50. Profit = 100-50 = 50
 $O(n)O(1)$ = 1000 numDivide = 0 numConquer = 999

--- Array length is 1000

$O(n^2)O(1)$: Sold on day 966 for 100. Bought on day 928 for 50. Profit = 100-50 = 50
 $O(n^2)O(1)$ = 1000000 numDivide = 0 numConquer = 499500
 $O(n \log n)O(\log n)$: Sold on day 54 for 100. Bought on day 17 for 50. Profit = 100-50 = 50
 $O(n \log n)O(\log n)$ = 9965 numDivide = 999 numConquer = 5044
 $O(n)O(\log n)$: Sold on day 54 for 100. Bought on day 17 for 50. Profit = 100-50 = 50

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O(n)O(logn) = 1000 numDivide = 999 numConquer = 999
O(n)O(1): Sold on day 54 for 100. Bought on day 17 for 50. Profit = 100-50 = 50
O(n)O(1) = 1000 numDivide = 0 numConquer = 999
-----
--- Array length is 1000
O(n^2)O(1): Sold on day 924 for 100. Bought on day 738 for 50. Profit = 100-50 = 50
O(n^2)O(1) = 1000000 numDivide = 0 numConquer = 499500
O(nlogn)O(logn): Sold on day 207 for 100. Bought on day 199 for 50. Profit = 100-50 = 50
O(nlogn)O(logn) = 9965 numDivide = 999 numConquer = 5044
O(n)O(logn): Sold on day 207 for 100. Bought on day 199 for 50. Profit = 100-50 = 50
O(n)O(logn) = 1000 numDivide = 999 numConquer = 999
O(n)O(1): Sold on day 207 for 100. Bought on day 112 for 50. Profit = 100-50 = 50
O(n)O(1) = 1000 numDivide = 0 numConquer = 999
-----
--- Array length is 1000
O(n^2)O(1): Sold on day 932 for 100. Bought on day 915 for 50. Profit = 100-50 = 50
O(n^2)O(1) = 1000000 numDivide = 0 numConquer = 499500
O(nlogn)O(logn): Sold on day 20 for 100. Bought on day 17 for 50. Profit = 100-50 = 50
O(nlogn)O(logn) = 9965 numDivide = 999 numConquer = 5044
O(n)O(logn): Sold on day 20 for 100. Bought on day 17 for 50. Profit = 100-50 = 50
O(n)O(logn) = 1000 numDivide = 999 numConquer = 999
O(n)O(1): Sold on day 20 for 100. Bought on day 17 for 50. Profit = 100-50 = 50
O(n)O(1) = 1000 numDivide = 0 numConquer = 999
-----
--- Array length is 1000
O(n^2)O(1): Sold on day 970 for 100. Bought on day 911 for 50. Profit = 100-50 = 50
O(n^2)O(1) = 1000000 numDivide = 0 numConquer = 499500
O(nlogn)O(logn): Sold on day 152 for 100. Bought on day 129 for 50. Profit = 100-50 = 50
O(nlogn)O(logn) = 9965 numDivide = 999 numConquer = 5044
O(n)O(logn): Sold on day 152 for 100. Bought on day 129 for 50. Profit = 100-50 = 50
O(n)O(logn) = 1000 numDivide = 999 numConquer = 999
O(n)O(1): Sold on day 152 for 100. Bought on day 12 for 50. Profit = 100-50 = 50
O(n)O(1) = 1000 numDivide = 0 numConquer = 999
-----
--- Array length is 1000
O(n^2)O(1): Sold on day 955 for 100. Bought on day 940 for 50. Profit = 100-50 = 50
O(n^2)O(1) = 1000000 numDivide = 0 numConquer = 499500
O(nlogn)O(logn): Sold on day 7 for 100. Bought on day 6 for 50. Profit = 100-50 = 50
O(nlogn)O(logn) = 9965 numDivide = 999 numConquer = 5044
O(n)O(logn): Sold on day 7 for 100. Bought on day 6 for 50. Profit = 100-50 = 50
O(n)O(logn) = 1000 numDivide = 999 numConquer = 999
O(n)O(1): Sold on day 7 for 100. Bought on day 5 for 50. Profit = 100-50 = 50
O(n)O(1) = 1000 numDivide = 0 numConquer = 999
-----
--- Array length is 1000
O(n^2)O(1): Sold on day 774 for 100. Bought on day 753 for 50. Profit = 100-50 = 50
O(n^2)O(1) = 1000000 numDivide = 0 numConquer = 499500
O(nlogn)O(logn): Sold on day 8 for 100. Bought on day 4 for 50. Profit = 100-50 = 50
O(nlogn)O(logn) = 9965 numDivide = 999 numConquer = 5044
O(n)O(logn): Sold on day 8 for 100. Bought on day 5 for 50. Profit = 100-50 = 50
O(n)O(logn) = 1000 numDivide = 999 numConquer = 999
O(n)O(1): Sold on day 8 for 100. Bought on day 4 for 50. Profit = 100-50 = 50
O(n)O(1) = 1000 numDivide = 0 numConquer = 999
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--- Array length is 1000

$O(n^2)O(1)$: Sold on day 996 for 100. Bought on day 934 for 50. Profit = $100-50 = 50$
 $O(n^2)O(1) = 1000000$ numDivide = 0 numConquer = 499500
 $O(n\log n)O(\log n)$: Sold on day 244 for 100. Bought on day 219 for 50. Profit = $100-50 = 50$
 $O(n\log n)O(\log n) = 9965$ numDivide = 999 numConquer = 5044
 $O(n)O(\log n)$: Sold on day 244 for 100. Bought on day 220 for 50. Profit = $100-50 = 50$
 $O(n)O(\log n) = 1000$ numDivide = 999 numConquer = 999
 $O(n)O(1)$: Sold on day 244 for 100. Bought on day 64 for 50. Profit = $100-50 = 50$
 $O(n)O(1) = 1000$ numDivide = 0 numConquer = 999

--- Array length is 1000

$O(n^2)O(1)$: Sold on day 944 for 100. Bought on day 898 for 50. Profit = $100-50 = 50$
 $O(n^2)O(1) = 1000000$ numDivide = 0 numConquer = 499500
 $O(n\log n)O(\log n)$: Sold on day 183 for 100. Bought on day 172 for 50. Profit = $100-50 = 50$
 $O(n\log n)O(\log n) = 9965$ numDivide = 999 numConquer = 5044
 $O(n)O(\log n)$: Sold on day 183 for 100. Bought on day 172 for 50. Profit = $100-50 = 50$
 $O(n)O(\log n) = 1000$ numDivide = 999 numConquer = 999
 $O(n)O(1)$: Sold on day 133 for 100. Bought on day 34 for 50. Profit = $100-50 = 50$
 $O(n)O(1) = 1000$ numDivide = 0 numConquer = 999

--- Array length is 1000

$O(n^2)O(1)$: Sold on day 858 for 100. Bought on day 834 for 50. Profit = $100-50 = 50$
 $O(n^2)O(1) = 1000000$ numDivide = 0 numConquer = 499500
 $O(n\log n)O(\log n)$: Sold on day 18 for 100. Bought on day 8 for 50. Profit = $100-50 = 50$
 $O(n\log n)O(\log n) = 9965$ numDivide = 999 numConquer = 5044
 $O(n)O(\log n)$: Sold on day 18 for 100. Bought on day 8 for 50. Profit = $100-50 = 50$
 $O(n)O(\log n) = 1000$ numDivide = 999 numConquer = 999
 $O(n)O(1)$: Sold on day 18 for 100. Bought on day 8 for 50. Profit = $100-50 = 50$
 $O(n)O(1) = 1000$ numDivide = 0 numConquer = 999

--- Array length is 1000

$O(n^2)O(1)$: Sold on day 827 for 100. Bought on day 803 for 50. Profit = $100-50 = 50$
 $O(n^2)O(1) = 1000000$ numDivide = 0 numConquer = 499500
 $O(n\log n)O(\log n)$: Sold on day 214 for 100. Bought on day 205 for 50. Profit = $100-50 = 50$
 $O(n\log n)O(\log n) = 9965$ numDivide = 999 numConquer = 5044
 $O(n)O(\log n)$: Sold on day 214 for 100. Bought on day 205 for 50. Profit = $100-50 = 50$
 $O(n)O(\log n) = 1000$ numDivide = 999 numConquer = 999
 $O(n)O(1)$: Sold on day 214 for 100. Bought on day 81 for 50. Profit = $100-50 = 50$
 $O(n)O(1) = 1000$ numDivide = 0 numConquer = 999

--- Array length is 1000

$O(n^2)O(1)$: Sold on day 967 for 100. Bought on day 930 for 50. Profit = $100-50 = 50$
 $O(n^2)O(1) = 1000000$ numDivide = 0 numConquer = 499500
 $O(n\log n)O(\log n)$: Sold on day 20 for 100. Bought on day 15 for 50. Profit = $100-50 = 50$
 $O(n\log n)O(\log n) = 9965$ numDivide = 999 numConquer = 5044
 $O(n)O(\log n)$: Sold on day 20 for 100. Bought on day 15 for 50. Profit = $100-50 = 50$
 $O(n)O(\log n) = 1000$ numDivide = 999 numConquer = 999
 $O(n)O(1)$: Sold on day 20 for 100. Bought on day 15 for 50. Profit = $100-50 = 50$
 $O(n)O(1) = 1000$ numDivide = 0 numConquer = 999

--- Array length is 1000

$O(n^2)O(1)$: Sold on day 999 for 100. Bought on day 992 for 50. Profit = $100-50 = 50$
 $O(n^2)O(1) = 1000000$ numDivide = 0 numConquer = 499500
 $O(n\log n)O(\log n)$: Sold on day 92 for 100. Bought on day 31 for 50. Profit = $100-50 = 50$

$O(n \log n)O(\log n)$: 9965 numDivide = 999 numConquer = 5044
 $O(n)O(\log n)$: Sold on day 92 for 100. Bought on day 61 for 50. Profit = 100-50 = 50
 $O(n)O(\log n)$ = 1000 numDivide = 999 numConquer = 999
 $O(n)O(1)$: Sold on day 92 for 100. Bought on day 31 for 50. Profit = 100-50 = 50
 $O(n)O(1)$ = 1000 numDivide = 0 numConquer = 999

 --- Array length is 1000
 $O(n^2)O(1)$: Sold on day 965 for 100. Bought on day 943 for 50. Profit = 100-50 = 50
 $O(n^2)O(1)$ = 1000000 numDivide = 0 numConquer = 499500
 $O(n \log n)O(\log n)$: Sold on day 79 for 100. Bought on day 15 for 50. Profit = 100-50 = 50
 $O(n \log n)O(\log n)$ = 9965 numDivide = 999 numConquer = 5044
 $O(n)O(\log n)$: Sold on day 79 for 100. Bought on day 27 for 50. Profit = 100-50 = 50
 $O(n)O(\log n)$ = 1000 numDivide = 999 numConquer = 999
 $O(n)O(1)$: Sold on day 79 for 100. Bought on day 15 for 50. Profit = 100-50 = 50
 $O(n)O(1)$ = 1000 numDivide = 0 numConquer = 999

 --- Array length is 1000
 $O(n^2)O(1)$: Sold on day 925 for 100. Bought on day 860 for 50. Profit = 100-50 = 50
 $O(n^2)O(1)$ = 1000000 numDivide = 0 numConquer = 499500
 $O(n \log n)O(\log n)$: Sold on day 61 for 100. Bought on day 17 for 50. Profit = 100-50 = 50
 $O(n \log n)O(\log n)$ = 9965 numDivide = 999 numConquer = 5044
 $O(n)O(\log n)$: Sold on day 61 for 100. Bought on day 17 for 50. Profit = 100-50 = 50
 $O(n)O(\log n)$ = 1000 numDivide = 999 numConquer = 999
 $O(n)O(1)$: Sold on day 61 for 100. Bought on day 17 for 50. Profit = 100-50 = 50
 $O(n)O(1)$ = 1000 numDivide = 0 numConquer = 999

 --- Array length is 1000
 $O(n^2)O(1)$: Sold on day 993 for 100. Bought on day 923 for 50. Profit = 100-50 = 50
 $O(n^2)O(1)$ = 1000000 numDivide = 0 numConquer = 499500
 $O(n \log n)O(\log n)$: Sold on day 150 for 100. Bought on day 67 for 50. Profit = 100-50 = 50
 $O(n \log n)O(\log n)$ = 9965 numDivide = 999 numConquer = 5044
 $O(n)O(\log n)$: Sold on day 150 for 100. Bought on day 73 for 50. Profit = 100-50 = 50
 $O(n)O(\log n)$ = 1000 numDivide = 999 numConquer = 999
 $O(n)O(1)$: Sold on day 148 for 100. Bought on day 67 for 50. Profit = 100-50 = 50
 $O(n)O(1)$ = 1000 numDivide = 0 numConquer = 999

 --- Array length is 1000
 $O(n^2)O(1)$: Sold on day 964 for 100. Bought on day 899 for 50. Profit = 100-50 = 50
 $O(n^2)O(1)$ = 1000000 numDivide = 0 numConquer = 499500
 $O(n \log n)O(\log n)$: Sold on day 124 for 100. Bought on day 1 for 50. Profit = 100-50 = 50
 $O(n \log n)O(\log n)$ = 9965 numDivide = 999 numConquer = 5044
 $O(n)O(\log n)$: Sold on day 124 for 100. Bought on day 31 for 50. Profit = 100-50 = 50
 $O(n)O(\log n)$ = 1000 numDivide = 999 numConquer = 999
 $O(n)O(1)$: Sold on day 124 for 100. Bought on day 1 for 50. Profit = 100-50 = 50
 $O(n)O(1)$ = 1000 numDivide = 0 numConquer = 999

 --- Array length is 1000
 $O(n^2)O(1)$: Sold on day 667 for 100. Bought on day 597 for 50. Profit = 100-50 = 50
 $O(n^2)O(1)$ = 1000000 numDivide = 0 numConquer = 499500
 $O(n \log n)O(\log n)$: Sold on day 116 for 100. Bought on day 112 for 50. Profit = 100-50 = 50
 $O(n \log n)O(\log n)$ = 9965 numDivide = 999 numConquer = 5044
 $O(n)O(\log n)$: Sold on day 116 for 100. Bought on day 112 for 50. Profit = 100-50 = 50
 $O(n)O(\log n)$ = 1000 numDivide = 999 numConquer = 999
 $O(n)O(1)$: Sold on day 116 for 100. Bought on day 90 for 50. Profit = 100-50 = 50

$O(n)O(1) = 1000$ numDivide = 0 numConquer = 999

--- Array length is 1000

$O(n^2)O(1)$: Sold on day 995 for 100. Bought on day 938 for 50. Profit = $100 - 50 = 50$

$O(n^2)O(1) = 1000000$ numDivide = 0 numConquer = 499500

$O(n \log n)O(\log n)$: Sold on day 46 for 100. Bought on day 25 for 50. Profit = $100 - 50 = 50$

$O(n \log n)O(\log n) = 9965$ numDivide = 999 numConquer = 5044

$O(n)O(\log n)$: Sold on day 46 for 100. Bought on day 25 for 50. Profit = $100 - 50 = 50$

$O(n)O(\log n) = 1000$ numDivide = 999 numConquer = 999

$O(n)O(1)$: Sold on day 46 for 100. Bought on day 25 for 50. Profit = $100 - 50 = 50$

$O(n)O(1) = 1000$ numDivide = 0 numConquer = 999

--- Array length is 1000

$O(n^2)O(1)$: Sold on day 916 for 100. Bought on day 844 for 50. Profit = $100 - 50 = 50$

$O(n^2)O(1) = 1000000$ numDivide = 0 numConquer = 499500

$O(n \log n)O(\log n)$: Sold on day 146 for 100. Bought on day 126 for 50. Profit = $100 - 50 = 50$

$O(n \log n)O(\log n) = 9965$ numDivide = 999 numConquer = 5044

$O(n)O(\log n)$: Sold on day 146 for 100. Bought on day 136 for 50. Profit = $100 - 50 = 50$

$O(n)O(\log n) = 1000$ numDivide = 999 numConquer = 999

$O(n)O(1)$: Sold on day 146 for 100. Bought on day 126 for 50. Profit = $100 - 50 = 50$

$O(n)O(1) = 1000$ numDivide = 0 numConquer = 999

--- Array length is 1000

$O(n^2)O(1)$: Sold on day 988 for 100. Bought on day 882 for 50. Profit = $100 - 50 = 50$

$O(n^2)O(1) = 1000000$ numDivide = 0 numConquer = 499500

$O(n \log n)O(\log n)$: Sold on day 23 for 100. Bought on day 5 for 50. Profit = $100 - 50 = 50$

$O(n \log n)O(\log n) = 9965$ numDivide = 999 numConquer = 5044

$O(n)O(\log n)$: Sold on day 23 for 100. Bought on day 5 for 50. Profit = $100 - 50 = 50$

$O(n)O(\log n) = 1000$ numDivide = 999 numConquer = 999

$O(n)O(1)$: Sold on day 23 for 100. Bought on day 5 for 50. Profit = $100 - 50 = 50$

$O(n)O(1) = 1000$ numDivide = 0 numConquer = 999

--- Array length is 1000

$O(n^2)O(1)$: Sold on day 983 for 100. Bought on day 981 for 50. Profit = $100 - 50 = 50$

$O(n^2)O(1) = 1000000$ numDivide = 0 numConquer = 499500

$O(n \log n)O(\log n)$: Sold on day 38 for 100. Bought on day 31 for 50. Profit = $100 - 50 = 50$

$O(n \log n)O(\log n) = 9965$ numDivide = 999 numConquer = 5044

$O(n)O(\log n)$: Sold on day 38 for 100. Bought on day 31 for 50. Profit = $100 - 50 = 50$

$O(n)O(\log n) = 1000$ numDivide = 999 numConquer = 999

$O(n)O(1)$: Sold on day 37 for 100. Bought on day 31 for 50. Profit = $100 - 50 = 50$

$O(n)O(1) = 1000$ numDivide = 0 numConquer = 999

--- Array length is 1000

$O(n^2)O(1)$: Sold on day 978 for 100. Bought on day 973 for 50. Profit = $100 - 50 = 50$

$O(n^2)O(1) = 1000000$ numDivide = 0 numConquer = 499500

$O(n \log n)O(\log n)$: Sold on day 110 for 100. Bought on day 72 for 50. Profit = $100 - 50 = 50$

$O(n \log n)O(\log n) = 9965$ numDivide = 999 numConquer = 5044

$O(n)O(\log n)$: Sold on day 110 for 100. Bought on day 72 for 50. Profit = $100 - 50 = 50$

$O(n)O(\log n) = 1000$ numDivide = 999 numConquer = 999

$O(n)O(1)$: Sold on day 64 for 100. Bought on day 39 for 50. Profit = $100 - 50 = 50$

$O(n)O(1) = 1000$ numDivide = 0 numConquer = 999

--- Array length is 1000

$O(n^2)O(1)$: Sold on day 924 for 100. Bought on day 822 for 50. Profit = $100 - 50 = 50$

$O(n^2)O(1)$ = 1000000 numDivide = 0 numConquer = 499500
 $O(n \log n)O(\log n)$: Sold on day 229 for 100. Bought on day 221 for 50. Profit = $100 - 50 = 50$
 $O(n \log n)O(\log n)$ = 9965 numDivide = 999 numConquer = 5044
 $O(n)O(\log n)$: Sold on day 229 for 100. Bought on day 221 for 50. Profit = $100 - 50 = 50$
 $O(n)O(\log n)$ = 1000 numDivide = 999 numConquer = 999
 $O(n)O(1)$: Sold on day 131 for 100. Bought on day 54 for 50. Profit = $100 - 50 = 50$
 $O(n)O(1)$ = 1000 numDivide = 0 numConquer = 999

--- Array length is 1000

$O(n^2)O(1)$: Sold on day 992 for 100. Bought on day 985 for 50. Profit = $100 - 50 = 50$
 $O(n^2)O(1)$ = 1000000 numDivide = 0 numConquer = 499500
 $O(n \log n)O(\log n)$: Sold on day 94 for 100. Bought on day 58 for 50. Profit = $100 - 50 = 50$
 $O(n \log n)O(\log n)$ = 9965 numDivide = 999 numConquer = 5044
 $O(n)O(\log n)$: Sold on day 94 for 100. Bought on day 58 for 50. Profit = $100 - 50 = 50$
 $O(n)O(\log n)$ = 1000 numDivide = 999 numConquer = 999
 $O(n)O(1)$: Sold on day 94 for 100. Bought on day 58 for 50. Profit = $100 - 50 = 50$
 $O(n)O(1)$ = 1000 numDivide = 0 numConquer = 999

--- Array length is 1000

$O(n^2)O(1)$: Sold on day 990 for 100. Bought on day 942 for 50. Profit = $100 - 50 = 50$
 $O(n^2)O(1)$ = 1000000 numDivide = 0 numConquer = 499500
 $O(n \log n)O(\log n)$: Sold on day 34 for 100. Bought on day 32 for 50. Profit = $100 - 50 = 50$
 $O(n \log n)O(\log n)$ = 9965 numDivide = 999 numConquer = 5044
 $O(n)O(\log n)$: Sold on day 34 for 100. Bought on day 32 for 50. Profit = $100 - 50 = 50$
 $O(n)O(\log n)$ = 1000 numDivide = 999 numConquer = 999
 $O(n)O(1)$: Sold on day 34 for 100. Bought on day 12 for 50. Profit = $100 - 50 = 50$
 $O(n)O(1)$ = 1000 numDivide = 0 numConquer = 999

--- Array length is 1000

$O(n^2)O(1)$: Sold on day 998 for 100. Bought on day 953 for 50. Profit = $100 - 50 = 50$
 $O(n^2)O(1)$ = 1000000 numDivide = 0 numConquer = 499500
 $O(n \log n)O(\log n)$: Sold on day 82 for 100. Bought on day 21 for 50. Profit = $100 - 50 = 50$
 $O(n \log n)O(\log n)$ = 9965 numDivide = 999 numConquer = 5044
 $O(n)O(\log n)$: Sold on day 82 for 100. Bought on day 21 for 50. Profit = $100 - 50 = 50$
 $O(n)O(\log n)$ = 1000 numDivide = 999 numConquer = 999
 $O(n)O(1)$: Sold on day 72 for 100. Bought on day 21 for 50. Profit = $100 - 50 = 50$
 $O(n)O(1)$ = 1000 numDivide = 0 numConquer = 999

--- Array length is 1000

$O(n^2)O(1)$: Sold on day 963 for 100. Bought on day 898 for 50. Profit = $100 - 50 = 50$
 $O(n^2)O(1)$ = 1000000 numDivide = 0 numConquer = 499500
 $O(n \log n)O(\log n)$: Sold on day 49 for 100. Bought on day 32 for 50. Profit = $100 - 50 = 50$
 $O(n \log n)O(\log n)$ = 9965 numDivide = 999 numConquer = 5044
 $O(n)O(\log n)$: Sold on day 49 for 100. Bought on day 32 for 50. Profit = $100 - 50 = 50$
 $O(n)O(\log n)$ = 1000 numDivide = 999 numConquer = 999
 $O(n)O(1)$: Sold on day 49 for 100. Bought on day 32 for 50. Profit = $100 - 50 = 50$
 $O(n)O(1)$ = 1000 numDivide = 0 numConquer = 999

--- Array length is 1000

$O(n^2)O(1)$: Sold on day 932 for 100. Bought on day 763 for 50. Profit = $100 - 50 = 50$
 $O(n^2)O(1)$ = 1000000 numDivide = 0 numConquer = 499500
 $O(n \log n)O(\log n)$: Sold on day 61 for 100. Bought on day 51 for 50. Profit = $100 - 50 = 50$
 $O(n \log n)O(\log n)$ = 9965 numDivide = 999 numConquer = 5044
 $O(n)O(\log n)$: Sold on day 61 for 100. Bought on day 51 for 50. Profit = $100 - 50 = 50$

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O(n)O(logn) = 1000 numDivide = 999 numConquer = 999
O(n)O(1): Sold on day 56 for 100. Bought on day 51 for 50. Profit = 100-50 = 50
O(n)O(1) = 1000 numDivide = 0 numConquer = 999
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--- Array length is 1000
O(n^2)O(1): Sold on day 916 for 100. Bought on day 907 for 50. Profit = 100-50 = 50
O(n^2)O(1) = 1000000 numDivide = 0 numConquer = 499500
O(nlogn)O(logn): Sold on day 151 for 100. Bought on day 143 for 50. Profit = 100-50 = 50
O(nlogn)O(logn) = 9965 numDivide = 999 numConquer = 5044
O(n)O(logn): Sold on day 151 for 100. Bought on day 143 for 50. Profit = 100-50 = 50
O(n)O(logn) = 1000 numDivide = 999 numConquer = 999
O(n)O(1): Sold on day 151 for 100. Bought on day 107 for 50. Profit = 100-50 = 50
O(n)O(1) = 1000 numDivide = 0 numConquer = 999
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--- Array length is 1000
O(n^2)O(1): Sold on day 923 for 100. Bought on day 873 for 50. Profit = 100-50 = 50
O(n^2)O(1) = 1000000 numDivide = 0 numConquer = 499500
O(nlogn)O(logn): Sold on day 230 for 100. Bought on day 202 for 50. Profit = 100-50 = 50
O(nlogn)O(logn) = 9965 numDivide = 999 numConquer = 5044
O(n)O(logn): Sold on day 230 for 100. Bought on day 202 for 50. Profit = 100-50 = 50
O(n)O(logn) = 1000 numDivide = 999 numConquer = 999
O(n)O(1): Sold on day 230 for 100. Bought on day 47 for 50. Profit = 100-50 = 50
O(n)O(1) = 1000 numDivide = 0 numConquer = 999
-----
--- Array length is 1000
O(n^2)O(1): Sold on day 853 for 100. Bought on day 815 for 50. Profit = 100-50 = 50
O(n^2)O(1) = 1000000 numDivide = 0 numConquer = 499500
O(nlogn)O(logn): Sold on day 247 for 100. Bought on day 236 for 50. Profit = 100-50 = 50
O(nlogn)O(logn) = 9965 numDivide = 999 numConquer = 5044
O(n)O(logn): Sold on day 247 for 100. Bought on day 236 for 50. Profit = 100-50 = 50
O(n)O(logn) = 1000 numDivide = 999 numConquer = 999
O(n)O(1): Sold on day 144 for 100. Bought on day 17 for 50. Profit = 100-50 = 50
O(n)O(1) = 1000 numDivide = 0 numConquer = 999
-----
--- Array length is 1000
O(n^2)O(1): Sold on day 982 for 100. Bought on day 830 for 50. Profit = 100-50 = 50
O(n^2)O(1) = 1000000 numDivide = 0 numConquer = 499500
O(nlogn)O(logn): Sold on day 92 for 100. Bought on day 31 for 50. Profit = 100-50 = 50
O(nlogn)O(logn) = 9965 numDivide = 999 numConquer = 5044
O(n)O(logn): Sold on day 92 for 100. Bought on day 31 for 50. Profit = 100-50 = 50
O(n)O(logn) = 1000 numDivide = 999 numConquer = 999
O(n)O(1): Sold on day 79 for 100. Bought on day 31 for 50. Profit = 100-50 = 50
O(n)O(1) = 1000 numDivide = 0 numConquer = 999
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--- Array length is 1000
O(n^2)O(1): Sold on day 966 for 100. Bought on day 962 for 50. Profit = 100-50 = 50
O(n^2)O(1) = 1000000 numDivide = 0 numConquer = 499500
O(nlogn)O(logn): Sold on day 238 for 100. Bought on day 230 for 50. Profit = 100-50 = 50
O(nlogn)O(logn) = 9965 numDivide = 999 numConquer = 5044
O(n)O(logn): Sold on day 238 for 100. Bought on day 230 for 50. Profit = 100-50 = 50
O(n)O(logn) = 1000 numDivide = 999 numConquer = 999
O(n)O(1): Sold on day 227 for 100. Bought on day 13 for 50. Profit = 100-50 = 50
O(n)O(1) = 1000 numDivide = 0 numConquer = 999
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--- Array length is 1000

$O(n^2)O(1)$: Sold on day 882 for 100. Bought on day 835 for 50. Profit = $100-50 = 50$

$O(n^2)O(1) = 1000000$ numDivide = 0 numConquer = 499500

$O(n\log n)O(\log n)$: Sold on day 241 for 100. Bought on day 216 for 50. Profit = $100-50 = 50$

$O(n\log n)O(\log n) = 9965$ numDivide = 999 numConquer = 5044

$O(n)O(\log n)$: Sold on day 241 for 100. Bought on day 216 for 50. Profit = $100-50 = 50$

$O(n)O(\log n) = 1000$ numDivide = 999 numConquer = 999

$O(n)O(1)$: Sold on day 153 for 100. Bought on day 104 for 50. Profit = $100-50 = 50$

$O(n)O(1) = 1000$ numDivide = 0 numConquer = 999

--- Array length is 1000

$O(n^2)O(1)$: Sold on day 990 for 100. Bought on day 923 for 50. Profit = $100-50 = 50$

$O(n^2)O(1) = 1000000$ numDivide = 0 numConquer = 499500

$O(n\log n)O(\log n)$: Sold on day 49 for 100. Bought on day 32 for 50. Profit = $100-50 = 50$

$O(n\log n)O(\log n) = 9965$ numDivide = 999 numConquer = 5044

$O(n)O(\log n)$: Sold on day 49 for 100. Bought on day 41 for 50. Profit = $100-50 = 50$

$O(n)O(\log n) = 1000$ numDivide = 999 numConquer = 999

$O(n)O(1)$: Sold on day 49 for 100. Bought on day 13 for 50. Profit = $100-50 = 50$

$O(n)O(1) = 1000$ numDivide = 0 numConquer = 999

--- Array length is 1000

$O(n^2)O(1)$: Sold on day 887 for 100. Bought on day 852 for 50. Profit = $100-50 = 50$

$O(n^2)O(1) = 1000000$ numDivide = 0 numConquer = 499500

$O(n\log n)O(\log n)$: Sold on day 51 for 100. Bought on day 33 for 50. Profit = $100-50 = 50$

$O(n\log n)O(\log n) = 9965$ numDivide = 999 numConquer = 5044

$O(n)O(\log n)$: Sold on day 51 for 100. Bought on day 33 for 50. Profit = $100-50 = 50$

$O(n)O(\log n) = 1000$ numDivide = 999 numConquer = 999

$O(n)O(1)$: Sold on day 51 for 100. Bought on day 33 for 50. Profit = $100-50 = 50$

$O(n)O(1) = 1000$ numDivide = 0 numConquer = 999

--- Array length is 1000

$O(n^2)O(1)$: Sold on day 951 for 100. Bought on day 931 for 50. Profit = $100-50 = 50$

$O(n^2)O(1) = 1000000$ numDivide = 0 numConquer = 499500

$O(n\log n)O(\log n)$: Sold on day 222 for 100. Bought on day 209 for 50. Profit = $100-50 = 50$

$O(n\log n)O(\log n) = 9965$ numDivide = 999 numConquer = 5044

$O(n)O(\log n)$: Sold on day 222 for 100. Bought on day 209 for 50. Profit = $100-50 = 50$

$O(n)O(\log n) = 1000$ numDivide = 999 numConquer = 999

$O(n)O(1)$: Sold on day 222 for 100. Bought on day 209 for 50. Profit = $100-50 = 50$

$O(n)O(1) = 1000$ numDivide = 0 numConquer = 999

All Stock1 tests passed. Now you can pass interviews

Stock1 problem ENDS