

LeetCode

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Description

Solution

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EASY souldion with DRY RUN - JAVA

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★ 518

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**Intuition**

At every iteration, tracking maximum length of positive multiplicative result and negative multiplicative result can help.  
Multiplicative Result : result(+ve/-ve) of multiplication of bunch of numbers(some of which can be +ve/-ve)

- Algorithm
- If we see a 0, we gotta start off things again
  - If we see a positive number :
    - Increase length of positive mutilpicative result till now.
    - Increase length of negative mutilpicative result till now, unless we had not encountered any negative before.
  - If we see a negative number:
    - It's time to swap positive and negative multiplicative results' lengths and do similar task as we did in above case.
  - In each iteration, use the length of positive mutilpicative result to compute answer.

Dry Run

elements	:	9	5	8	2	-6	4	-3	0	2	-5	15	10	-7	9	-2
positive_len	:	1	2	3	4	0	1	7	0	1	0	1	2	5	6	5
negative_len	:	0	0	0	0	5	6	2	0	0	2	3	4	3	4	7

Answer : Max(all these positive\_len values) => 7

```
class Solution {
    public int getMaxLen(int[] nums) {
        int positive = 0, negative = 0;    // length of positive and negative results
        int ans = 0;
        for(int x : nums) {
            if(x == 0) {
                positive = 0;
                negative = 0;
            }
            else if(x > 0) {
                positive++;
                negative = negative == 0 ? 0 : negative+1;
            }
            else {
                int temp = positive;
                positive = negative == 0 ? 0 : negative+1;
                negative = temp+1;
            }
            ans = Math.max(ans, positive);
        }
        return ans;
    }
}
```

java

easy-understanding

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Corsaro\_Nero 

★ 22

 October 1, 2021 2:49 PM

Great explanation  
Love the dry run! Thank you

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