Boolean Confusion

Here is a video walkthrough of the solutions.

Give the best and worst case runtime in $\Theta(.)$ notation as a function of `N`, where `N` is `arr.length`. Your answer should be simple with no unnecessary leading constants or summations.

```
1  void confusion(boolean[] arr) {
2      boolean first = arr[0];
3      int next;
4      for (next = 1; arr[next] == first; next++) {
5          if (next == arr.length - 1) {
6              return;
7          }
8      }
9      for (int i = 0; i < next; i++) {
10         arr[i] = !arr[i];
11     }
12     confusion(arr);
13 }
```

Best Case: $\Theta($ $)$, Worst Case: $\Theta($ $)$

Solution:
Best Case: $\Theta(N)$, Worst Case: $\Theta(N^2)$