

rock
 ★ 52/5
 Last Edit: November 3, 2019 6:21 AM
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5

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```
public List<Integer> transformArray(int[] arr) {
    int[] ans = new int[arr.length];
    while (!Arrays.equals(ans, arr)) {
        ans = arr.clone();
        for (int i = 1; i < arr.length - 1; ++i) {
            if (ans[i - 1] < ans[i] && ans[i] > ans[i + 1]) {
                --arr[i];
            } else if (ans[i - 1] > ans[i] && ans[i] < ans[i + 1]) {
                ++arr[i];
            }
        }
    }
    return arr.length < 3 ? arr : Arrays.stream(ans).boxed().collect(Collectors.toList());
}
```

```
def transformArray(self, arr: List[int]) -> List[int]:
    ans = [0] * len(arr)
    while ans != arr:
        ans = arr[:]
        for i in range(1, len(arr) - 1):
            if ans[i - 1] < ans[i] > ans[i + 1]:
                arr[i] -= 1
            elif ans[i - 1] > ans[i] < ans[i + 1]:
                arr[i] += 1
    return arr if len(arr) < 3 else ans
```

or

```
def transformArray(self, arr: List[int]) -> List[int]:
    ans = [0] * len(arr)
    while ans != arr:
        ans = arr[:]
        for i in range(1, len(arr) - 1):
            arr[i] += (ans[i - 1] > ans[i] < ans[i + 1]) - (ans[i - 1] < ans[i] > ans[i + 1])
    return arr if len(arr) < 3 else ans
```

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copyfriend
 ★ 27
 November 7, 2019 4:55 AM

no need return arr if len(arr) < 3

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Xyzy123
 ★ 51
 April 10, 2020 10:52 PM

Another take on a brute-force solution. This uses a flag (per @sanmao0715's suggestion) to avoid the "ans != arr" comparison, which is expensive:

```
def transformArray(self, arr: List[int]) -> List[int]:

    # Loop until the array is unchanged
    changed = True
    while changed:

        # Clone the existing array
        next_arr = arr[:]
        changed = False
```

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Be\_Kind\_To\_One\_Another
 ★ 32
 Last Edit: January 5, 2020 12:42 PM

Also return arr is wrong, need to return a list not an array, please fix it!

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sanmao0715
 ★ 153
 November 6, 2019 11:23 AM

while ans != arr:

This condition makes it super slow. You dont need to compare the whole lists to see the change. Can set some flag in the loop

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