

Find the number of all elements equal to the minimum element of an array in 1 pass through the array

example

7 3 4 3 3 3 2 7 7 2 -4 8 -4 89

answer 2

```
void searchArray(int arr[], int length) {
    int minNum = arr[0];
    int counterNum = 0;
    for (int i = 0; i < length; i++) {
        if (arr[i] < minNum) {
            minNum = arr[i];
        }
    }
    for (int i = 0; i < length; i++) {
        if (arr[i] == minNum) {
            counterNum++;
        }
    }
    std::cout << minNum << std::endl;
    std::cout << counterNum << std::endl;
}
```

```
void searchArray(int arr[], int length) {
    int minNum = arr[0];
    int counterNum = 0;
    for (int i = 0; i < length; i++) {
        if (arr[i] < minNum) {
            minNum = arr[i];
            counterNum = 0; // reset counter every time element changes the minimum #
        }
        if (arr[i] == minNum) {
            counterNum++; // will count the # at least once
        }
    }
    std::cout << minNum << std::endl;
    std::cout << counterNum << std::endl;
}
```

//better version, only 1 loop

