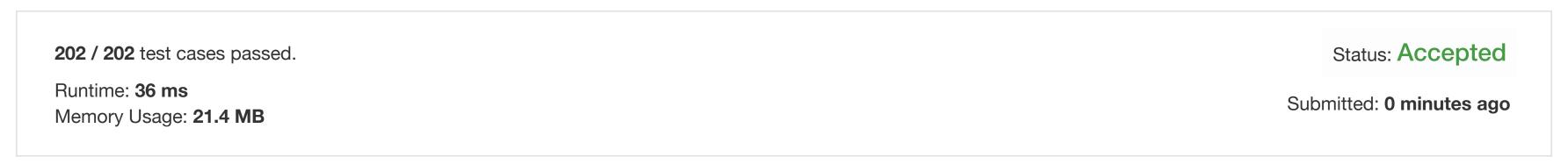
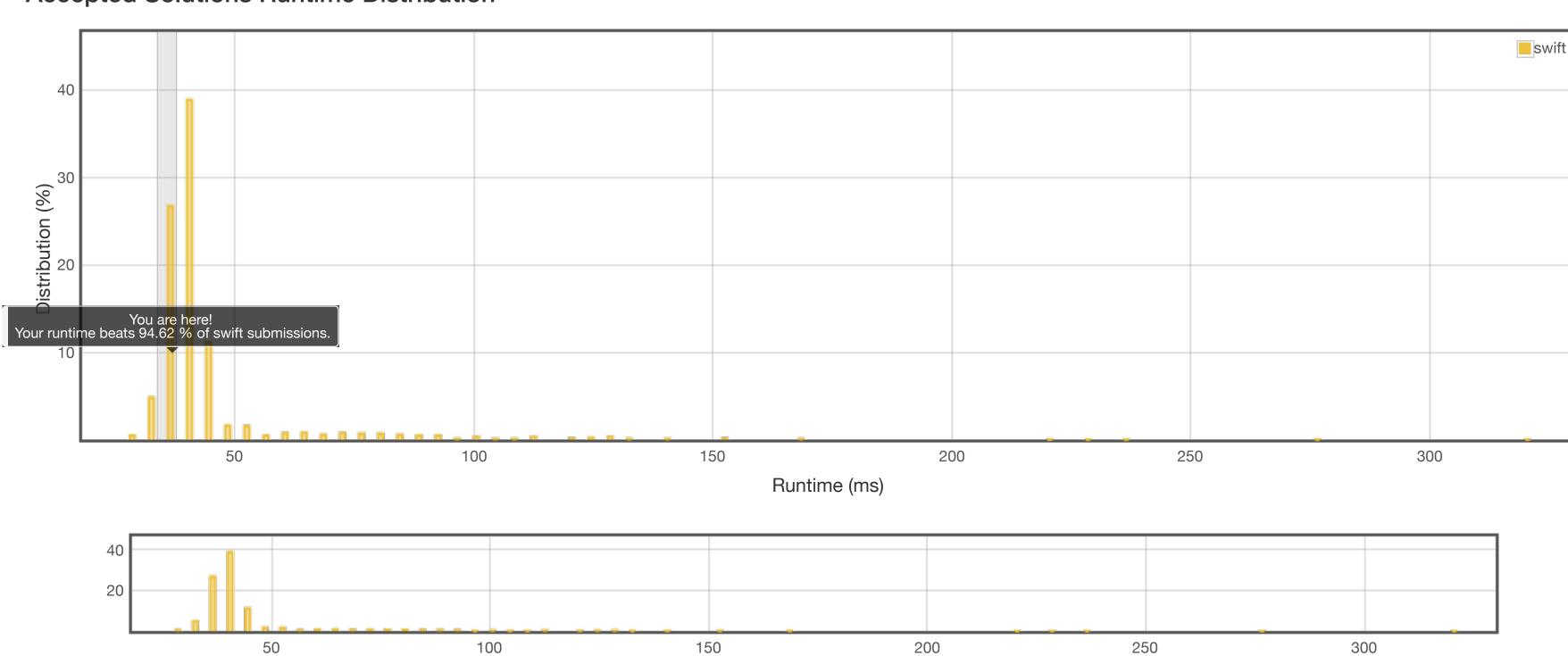
## **Maximum Subarray**

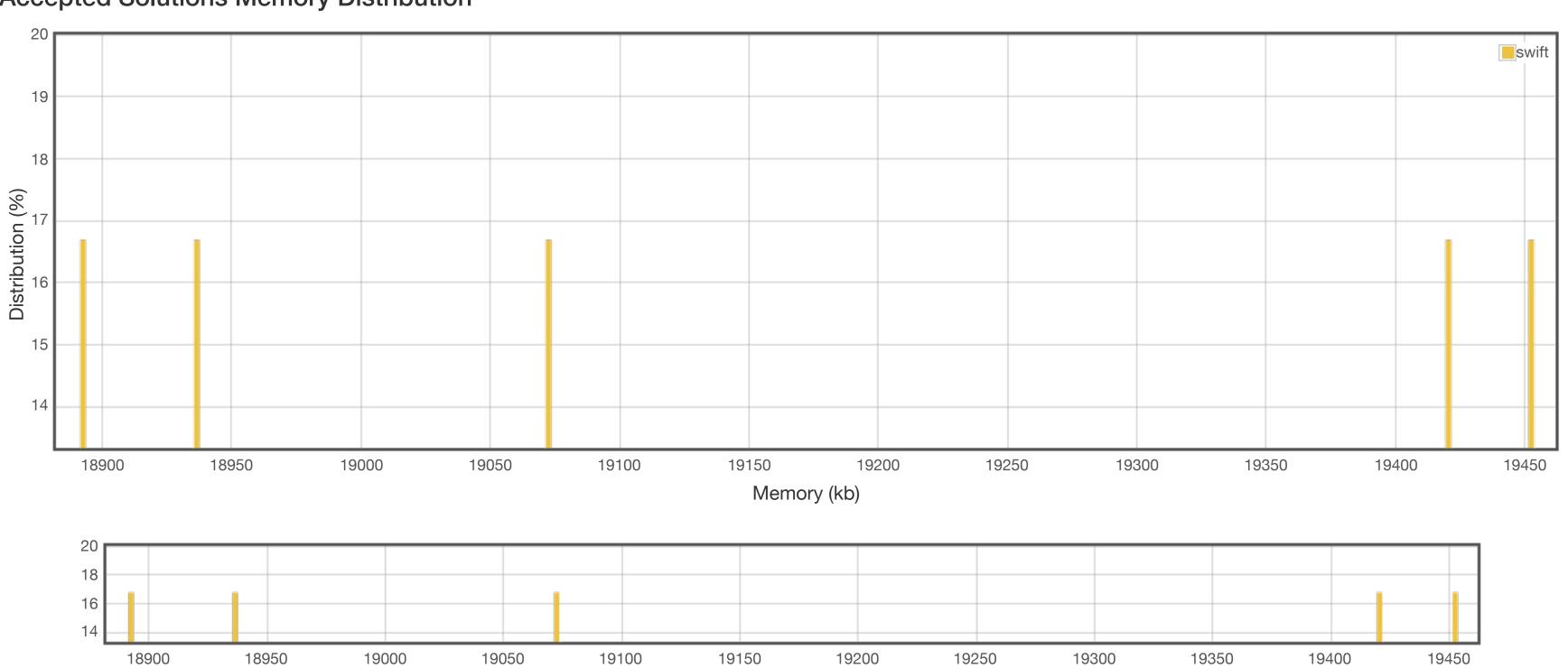
## **Submission Detail**



### **Accepted Solutions Runtime Distribution**



# **Accepted Solutions Memory Distribution**



Zoom area by dragging across this chart

Zoom area by dragging across this chart

Invite friends to challenge Maximum Subarray

f 5 6 + < 28

```
Submitted Code: 0 minutes ago
Language: swift
                                                                                                                              Edit Code
   1 func myPrint(_ arg: Any) {
          //print(arg)
    3
      class Solution {
          func maxSubArray(_ nums: [Int]) -> Int {
              assert(nums.count > 0)
    9
              //return maxSubArrayA(nums)
  10
              return maxSubArrayB(nums)
  11
  12
          // Time: 0(n^2)
  13
  14
          // Space: 0(1)
          private func maxSubArrayA(_ nums: [Int]) -> Int {
  15
  16
              var maxSum = nums[0]
              myPrint(maxSum)
  17
              var i = 0
  18
              while i < nums.count {</pre>
  19
  20
                  var j = i + 1
                  var newSum = nums[i]
  21
  22
                  if newSum > maxSum {
  23
                      maxSum = newSum
  24
                      myPrint("update max to \(maxSum)")
  25
  26
                  myPrint("i: \(i), j: \(j), newSum: \(newSum)")
  27
                  while j < nums.count {</pre>
  28
                      newSum += nums[j]
  29
                      myPrint("i: \(i), j: \(j), newSum: \(newSum)")
  30
                      if newSum > maxSum {
                          maxSum = newSum
  31
  32
                          myPrint("update max to \(maxSum)")
  33
  34
                      j += 1
  35
  36
                  myPrint("")
  37
                  i += 1
  38
  39
              return maxSum
  40
  41
  42
          // Time: 0(n)
  43
          // Space: 0(1)
          private func maxSubArrayB(_ nums: [Int]) -> Int {
  44
              var maxSum = nums[0]
  45
              var curSum = nums[0]
  46
  47
              var i = 1
              while i < nums.count {</pre>
                  curSum = max(nums[i], curSum + nums[i])
  49
  50
                  if curSum > maxSum {
                      maxSum = curSum
  51
  52
  53
                  i += 1
  54
  55
  56
              return maxSum
```

Back to problem

57

58 }