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                                                                                          May LeetCoding Challenge!
                                                                                                                                            E # 0
 Description
                                        O Submissions
                                                            Discuss (123)
                          if (i > k - 1) { win -= calories[i - k]; }
                                                                                               // more than k sequence already
                          if (win < lower) { --point ; }
                          else if (win > upper) { ++point; }
                  return point;
        Python 3
              def dietPlanPerformance(self, calories: List[int], k: int, lower: int, upper: int) -> int:
                  point, win = \theta, \theta
                   for i, calory in enumerate(calories):
                      win += calory
                      if i >= k - 1:
                          if i > k - 1:
                              win -= calories[i - k]
                          if win < lower:
                              point -= 1
                          elif win > upper:
                            point += 1
                  return point
        Analysis:
        Time: O(n), space: O(1), where n = calories.length.
        Note: Python 3 can be simplified as the follows at a space cost of O(n), credit to @rostam:
              def dietPlanPerformance(self, calories: List[int], k: int, lower: int, upper: int) -> int:
                                                                                 # space cost O(k)
# space cost O(n - k)
                  point, win = 0, sum(calories[:k - 1])
                  for i, calory in enumerate(calories[k - 1:], k - 1):
                      win += calory - (i >= k) * calories[i - k]
                      point += (win > upper) - (win < lower)
                  return point
        Use itertools, islice to avoid space cost:
          from itertools import islice
              def dietPlanPerformance(self, calories: List[int], k: int, lower: int, upper: int) -> int:
                  point, win = 0, sum(islice(calories, k - 1))
                  for i, calory in enumerate(islice(calories, k - 1, None), k - 1):
                      win += calory - (i >= k) * calories[i - k]
                      point += (win > upper) - (win < lower)
                  return point
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MichaelZ ★ 633 September 2, 2019 6:36 AM
     Similar idea in C++:
           int dietPlanPerformance(vector<int>& calories, int k, int lower, int upper) {
               int res=0, sum=0;
               for(int i=0;i<calories.size();i++) {
                   sum+=calories[i];
                                                                             Read More
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     kris6689 * 37 May 10, 2020 7:56 AM
     if (i > k - 1) { win -= calories[i - k]; } Can someone explain this case with an example?
       △ 0 ▼ 🖒 Reply
    gopalyadav2108 * 4 September 1, 2019 1:26 PM
     thanks, that was helpful
       ▲ 0 ▼ 🖫 Show 1 reply 🖎 Reply
```