**Answer Script**

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| Question No. 01 |
| Write Python program to solve [Max Split](https://codeforces.com/group/MWSDmqGsZm/contest/219856/problem/S?fbclid=IwAR1qi6o8WBDOrdzcZ--U5YO_40SSQmmLbZ8jggB6CFIRqog1ukVL_Z2wK2s) |
| Answer No. 01 |
| s = input()  l = 0  r = 0  res = []  ans = ''  for val in s :      if(val == 'L') :          l += 1          ans += 'L'      else :          r += 1          ans += 'R'        if(l == r) :          res.append(ans)          ans = ''  length = len(res)  print(length)  for seq in res :      print(seq) |

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| Question No. 02 |
| Write Python program to solve [Good Sequence](https://atcoder.jp/contests/arc087/tasks/arc087_a) |
| Answer No. 02 |
| n = int(input())  input1 = input().split()  num\_list = [int(num) for num in input1]  num\_set = set(num\_list)  res = 0  for num in num\_set :      cnt = num\_list.count(num)        if( cnt > num) :          diff = cnt - num          res += diff      elif(cnt < num) :          res += cnt  print(res) |

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| Question No. 03 (a) |
| Write the difference between List and Dictionary of Python. |
| Answer No. 03 (a) |
| Difference between List and Dictionary are given below –   1. List is a collection of ordered items. Items of the list can be accessed by it’s position or index. Where, in Dictionary items are stored according to key-value pair. And each item can be accessed by their key. 2. Example of list :  my\_list = [1, 2, 3, 4, 5]   Exaple of dictionary : my\_dict = {'name': 'John', 'age': 30, 'city': 'New York'}   1. Accessing 1st element in list : my\_list [0]   Accessing “name” in dictionary : my\_dict[‘name’] |

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| Question No. 03 (b) |
| Write about \*args and \*\*kwargs of Python with proper examples. |
| Answer No. 03 (b) |
| \*args and \*\*kwargs both are special syntax which help us to pass variable number of parameter to the function. Both are described below –  **\*args :**  \*args allow to pass variable number of positional arguments to a function. Where, it collects all the additional arguments as tuple.  def my\_function(arg1, \*args):      print("First argument:", arg1)      print("Additional arguments:", args)  my\_function("first", "second", "third", "fourth")  output :  First argument: first  Additional arguments: ('second', 'third', 'fourth')  **\*\*kargs :**  \*\*kargs allow to pass variable number of keyword arguments to a function. Where, it collects all the additional arguments as dictionary.  def my\_function(arg1, \*\*kwargs):      print("First argument:", arg1)      print("Additional arguments:", kwargs)  my\_function("first", second="2nd", third="3rd", fourth="4th")  output :  First argument: first  Additional arguments: {'second': '2nd', 'third': '3rd', 'fourth': '4th'} |

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| Question No. 04 |
| Write Python program to solve [Minimize Number](https://codeforces.com/group/MWSDmqGsZm/contest/219774/problem/P) |
| Answer No. 04 |
| n = int(input())  input1 = input().split()  num\_list = [int(val) for val in input1]  cnt = 0  flag = True  while flag :      for idx, num in enumerate(num\_list) :          if(num%2 != 0) :              flag = False              break          else :              num\_list[idx] = num/2      cnt += 1  print(cnt-1) |

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| Question No. 05 |
| Take a number from the user and draw a pyramid using PyAutoGUI |
| Answer No. 05 |
| import pyautogui  import time  n = int(input())  time.sleep(2)  for i in range(n+1) :      for j in range(i) :          pyautogui.write("#", interval=0.25)      pyautogui.press('enter') |