**Answer Script**

| Question No. 01 |
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| Write Python program to solve [Max Split](https://codeforces.com/group/MWSDmqGsZm/contest/219856/problem/S?fbclid=IwAR1qi6o8WBDOrdzcZ--U5YO_40SSQmmLbZ8jggB6CFIRqog1ukVL_Z2wK2s) |
| Answer No. 01 |
| def max\_split(S):  L = 0  R = 0  result = []  start = 0  for i in range(len(S)):  if S[i] == 'L':  L += 1  else:  R += 1  if L == R:  result.append(S[start:i+1])  start = i + 1  L = R = 0    print(len(result))  for substring in result:  print(substring)  S = input()  max\_split(S) |

| Question No. 02 |
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| Write Python program to solve [Good Sequence](https://atcoder.jp/contests/arc087/tasks/arc087_a) |
| Answer No. 02 |
| n = int(input())  a = list(map(int, input().split()))  freq = {}  for num in a:  if num in freq:  freq[num] += 1  else:  freq[num] = 1  removals = 0  for num, count in freq.items():  if count > num:  removals += count - num  elif count < num:  removals += count  print(removals) |

| Question No. 03 |
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| **a**  Write the difference between List and Dictionary of Python.  **b**  Write about \*args and \*\*kwargs of Python with proper examples. |
| Answer No.3 |
| a)  The difference between list and dictionary is given below :   | **List** | **Dictionary** | | --- | --- | | 1. A collection of items. That item can be accessed using an index. | 1. It's a collection of unordered collection of key-value pairs. Accessed using keys. | | 2. square brackets [] are used | 2.curly braces {} with key-value pairs separated by colons aer used. | | 3.Use indices to access items, e.g., person[1] outputs ‘Zarif’. | 3.Use keys to access values, e.g.,person[‘name’] outputs ‘zarif’ | | 4.It allows duplicate items. | 4.here keys must be unique but values can be duplicated. |   b)  Now the differences between args and kwargs are given below:   * **\*args:** It is used to pass multiple numbers of positional arguments to a function. * **\*\*kwargs:** It is used to pass multiple numbers of keyword arguments to a function.   Examples are given below:  from kargs\_multiple import full\_name as name  # Example of \*args def print\_numbers(\*args):  for number in args:  print(number) print\_numbers(12, 45, 67, 89)  # Example of \*\*kwargs def print\_person\_details(\*\*kwargs):  for key, value in kwargs.items():  print(f"{key}: {value}") f\_name = name('Tomato', 'Morich') print(f"Full Name: {f\_name}") print\_person\_details(name='Kala Pakhi', age=23, job='facebooker') |

| Question No. 04 |
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| Write Python program to solve [Minimize Number](https://codeforces.com/group/MWSDmqGsZm/contest/219774/problem/P) |
| Answer No. 04 |
| n = int(input())  a = list(map(int, input().split()))  operations = 0  while all(num % 2 == 0 for num in a):  a = [num // 2 for num in a]  operations += 1  print(operations) |

| Question No. 5 |
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| Take a number from the user and draw a pyramid using PyAutoGUI  **Sample :** |
| Answer No. 05 |
| import pyautogui  from time import sleep  rows = int(input())  print()  sleep(5)  for i in range(1, rows + 1):  pyautogui.write('#' \* i)  pyautogui.press('enter') |