Maximum Time : 1hr 30min
Question 1: (Easy)

Write a Program to efficiently generate and compute the age of people. You can write in any comfortable language you prefer.

Input: Ages of Different people (Eg: 10, 20, 30, 40, 45, 50, 60)
Output:

Age Group	Total number of People
1-10	1
11-20	1
21-30	1
31-40	1
41-50	2
51-60	1
61-70	0
71-80	0
81-90	0
91-100	0

Question 2: (Medium)

Problem: Rotate an array of n elements to the right by k steps. For example, with n = 7 and k = 3, the array [1,2,3,4,5,6,7] is rotated to [5,6,7,1,2,3,4]. How many different ways do you know to solve this problem?

Question 3: (Hard)

Problem: Given the number a, 0 < a < 9999999. Find the number consecutive occurrence of each digits and total occurrence of each digits and make the respective sentence
Eg:
Input:
111
Output:
three 1's
Total: three 1's

Input:
11221
Output:
two 1's and two 2's and one 1
Total: three 1's and two 2's

Input
1145221
Output:
two 1's and one 4 and one 5 and two 2's and one 1
Total: four 1's and one 4 and one 5 and two 2's