3,6]

chapoti

Horf

Z O H O

```
int[] temp = new int[101];

for(int i=0; i<nums.length; i++)

        temp[nums[i]] +=1;

for(int j=1; j<= 100; j++)

        temp[j] += temp[j-1];

for(int k=0; k< nums.length; k++) {

        int pos = nums[k];

        nums[k] = pos==0 ? 0 : temp[pos-1];

    }

return nums;

}
```

3. What is the 'zoho' method's output with 's = "RLRRLLRLRL""?

```
public int zoho(String s) {

    int result = 0;

    int sum = 0;

    for (char c : s.toCharArray()) {

        sum += (c == 'R' ? 1 : -1);

        if (sum == 0)

                result++;

    }

    return result;

}
```

4. What is the 'zoho' method's output with 's = "l|*e*et|c**o|*de|""?
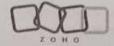
```
public int zoho(String s) {

    int ans = 0, j = 0;

    for (int i = 0; i < s.length(); ++i) {

        if (s.charAt(i) == '*' && j % 2 == 0)

            ans++;

        if (s.charAt(i) == '|')

            j++;

    }

    return ans;

}
```

5. What does the 'zoho' method return when given the input 'nums = [9,14,19,24]'?

```
public int zoho(int[] nums) {

    int n = nums.length;

    return Math.min(help(nums, n-1), help(nums, n-2));

}

private int help(int[] nums, int n) {

    if (n < 0)

        return 0;

    if (n==0 || n==1)

        return nums[n];

    return nums[n] + Math.min(help(nums, n-1), help(nums, n-2));

}
```

ZOHO

6. What is the 'zoho' method's output with 'str1 = "ZohoForLife", str2 = "HappyWorkHappyLife"' as input?

```
public int zoho(String str1, String str2) {

        int num = 0;

        for (int i = 0 ; i < str2.length(); i ++)

                if(str1.indexOf(str2.charAt(i)) != -1)

                        num++;

        return num;

}
```

7. What is the output of the below method when given the input strs = ["flower", "flow", "flight"]?

```
public String zoho(String[] strs) {

        String temp = strs[0];

        for (int i = 1; i < strs.length; i++)

                while (strs[i].indexOf(temp) != 0) {

                        temp = temp.substring(0, temp.length() - 1);

                        if (temp.isEmpty())

                                return "";

                }

        return temp;

}
```

8. What does the 'zoho' method return when given the input 'nums = [10,15,20,25]'?

```
public int zoho(int[] nums) {

        int n = nums.length;
```

```
        cur += i;

        h = Math.max(h, cur);

    }

    return h;

}
```

Section B - Aptitude
10 questions | 35 minutes

1. A train that is 500 meters long is moving at a speed of 63 kilometers per hour. A man is walking in the same direction as the train, and he is walking at a speed of 3 kilometers per hour. How many seconds will it take for the train to pass by the man completely?

2. In how many ways can we choose a group of 5 men and 6 women from a pool of 8 men and 10 women?

3. A man travels a certain distance. It takes him 10 hours to complete his journey. For the first half of the distance, he moves at a speed of 21 km/hr; for the second half, he travels at 24 km/hr. How long is the entire journey in kilometers?

4. What is the smallest positive integer that is evenly divisible by all the integers from 1 to 10 (inclusive)?

5. If four people who weave mats can make four mats in four days, how many mats would eight people who weave mats be able to make in eight days, assuming they all work at the same speed?

6. A shopkeeper sells an item at a 250% loss. If he had sold it for $60 more, he would have made a 15% profit. What is the cost price of the item?

7. If the average of five consecutive odd numbers is 23, what is the largest of these numbers?

8. If A can complete a task in 15 days, B can complete the same task in 12 days, and C can complete it in 10 days, how long will it take for all three working together to complete the task?