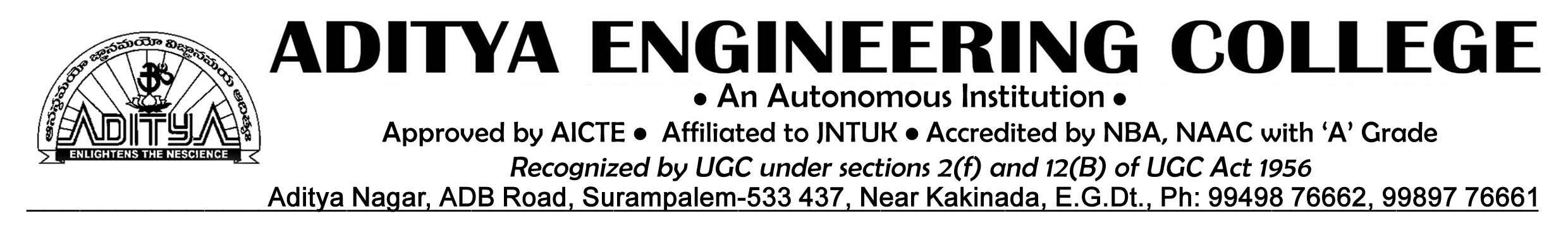
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Department of Computer Science & Engineering and Information Tech.

Special Technical Training

**Coding Practice Test - 1**

1. You are given **N** ropes. A cut operation is performed on ropes such that all of them are reduced by the length of the smallest rope. Display the number of ropes left after every cut operation till the length of each rope is zero.

**Input: I**nput contains integer **N** (no of ropes) followed by the **N** space separatedelements (length of rope).

**Output:**print the number of ropes that are left after each operation with space. IF no ropes left after one operation, in this case, we print 0.   
**Constraints:**

1<=N<=100

**Example:**

**Input:**

2

5 1 1 2 3 5

**Output:**

4 3 2

**Input:**

10

5 1 6 9 8 11 2 2 6 5

**Output:**

1. 7 5 3 2 1
2. Food Corner home delivers vegetarian and non-vegetarian combos to its customer based on order. A vegetarian combo costs Rs.120 per plate and a non-vegetarian combo costs Rs.150 per plate. Their non-veg combo is really famous that they get more orders for their non-vegetarian combo than the vegetarian combo.  
    Apart from the cost per plate of food, customers are also charged for home delivery based on the distance in kms from the restaurant to the delivery point. The delivery charges are as mentioned below:

| **Distance in kms** | **Delivery charge in Rs per km** |
| --- | --- |
| For first 3kms | 0 |
| For next 3kms | 3 |
| For the remaining | 6 |

Given the type of food, quantity (no. of plates) and the distance in kms from the restaurant to the delivery point, write a python program to calculate the final bill amount to be paid by a customer. The below information must be used to check the validity of the data provided by the customer:

* Type of food must be ‘V’ for vegetarian and ‘N’ for non-vegetarian.
* Distance in kms must be greater than 0.
* Quantity ordered should be minimum 1.

If any of the input is invalid, the bill amount should be considered as -1.

1. Take a string contains only alphabets. Now your task is to print each character followed by its frequency in alphabetical order.

**Input:**

aditya

**Output:**

a2d1i1t1y1

1. Take a string contains alphabets, symbols and digits. Now your task is to remove characters in the given string except alphabets.

**Sample Input:**

pr’og2^ram-ming

**Output:**

programming