



# **SNS COLLEGE OF TECHNOLOGY**

**Coimbatore-35**  
**An Autonomous Institution**



Accredited by NBA – AICTE and Accredited by NAAC – UGC with 'A+' Grade  
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

## **DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING**

### **VQAR-VERBAL QUANTITATIVE APTITUDE REASONING**

**II YEAR/ IV SEMESTER**

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#### **UNIT 3 –VERBAL REASONING I**

#### **TOPIC-1 MACHINE INPUT AND OUTPUT & CODED**

#### **INEQUALITIES**



# MACHINE INPUT AND OUTPUT & CODED INEQUALITIES



Input  $\rightarrow$  Machine  $\rightarrow$  Output



# MACHINE INPUT AND OUTPUT & CODED INEQUALITIES



Example 1:

**INPUT: Train Car Airplane Ship Bus Cycle Autorickshaw**

Step 1: Train Ship Car Airplane Bus Cycle Autorickshaw

Step 2: Train Ship Cycle Car Airplane Bus Autorickshaw

Step 3: Train Ship Cycle Car Bus Airplane Autorickshaw

Step 4: Train Ship Cycle Car Bus Autorickshaw Airplane

**Based on the above-mentioned Input, Find what should be the Output of the following Input?**



# MACHINE INPUT AND OUTPUT & CODED INEQUALITIES



## Solution:

If we carefully examine the Input “**Train Car Airplane Ship Bus Cycle Autorickshaw**”, **Step 4** is the final step and the Output clearly shows that all the words have been arranged in descending order of their appearance in the Alphabetic Series.



# MACHINE INPUT AND OUTPUT & CODED INEQUALITIES



**INPUT: Diver Actor Astronaut Engineer Therapist Sportsperson  
Doctor**

Step 1: Therapist Diver Actor Astronaut Engineer Sportsperson Doctor

Step 2: Therapist Sportsperson Diver Actor Astronaut Engineer Doctor

Step 3: Therapist Sportsperson Engineer Diver Actor Astronaut Doctor

Step 4: Therapist Sportsperson Engineer Doctor Diver Actor Astronaut

Step 5: Therapist Sportsperson Engineer Doctor Diver Astronaut Actor

Step 5, is the final step.



# MACHINE INPUT AND OUTPUT & CODED INEQUALITIES



**INPUT: Diver Actor Astronaut Engineer Therapist Sportsperson  
Doctor**

Q 1. How many steps does it take to get the final output?

**Answer: 5 steps**

Q 2. What is the 3rd word from the left in Step 4?

**Answer: Engineer**

Q 3. What will be Step 2?

**Answer: Therapist Sportsperson Diver Actor Astronaut  
Engineer Doctor**



# MACHINE INPUT AND OUTPUT & CODED INEQUALITIES



**INPUT: Diver Actor Astronaut Engineer Therapist Sportsperson  
Doctor**

**Q4: What is the position of the word “Astronaut” from  
left in Step 3?**

**Answer: 2nd from left**





# MACHINE INPUT AND OUTPUT & CODED INEQUALITIES



**INPUT: 56 72 33 98 12 15 29 49**

Step 1: 12 56 72 33 98 15 29 49

Step 2: 12 15 56 72 33 98 29 49

Step 3: 12 15 29 56 72 33 98 49

Step 4: 12 15 29 33 56 72 98 49

Step 5: 12 15 29 33 49 56 72 98

Step 5 is the last step.

Based on the above-mentioned Input, what shall be the Output of the following Input?

**INPUT: 74 32 45 90 21 77 80 82**





# MACHINE INPUT AND OUTPUT & CODED INEQUALITIES



**Solution:** Based on the input given in the question, it is clear that in the final step, the numbers are arranged in ascending order. So, the answer to the input “74 32 45 90 21 77 80 82” will be as follows:

**Step 1: 21 74 32 45 90 77 80 82**

**Step 2: 21 31 74 45 90 77 80 82**

**Step 3: 21 31 45 74 90 77 80 82**

**Step 4: 21 31 45 74 77 90 80 82**

**Step 5: 21 31 45 74 77 80 90 82**

**Step 6: 21 31 45 74 77 80 82 90**

**Step 6, being the final step.**



# MACHINE INPUT AND OUTPUT & CODED INEQUALITIES



**INPUT: Herb 30 Shrub 10 Grass 20 40 Tree Planter 50**

Step 1: 10 Herb 30 Shrub 20 40 Tree Planter 50 Grass

Step 2: 10 20 30 Shrub 40 Tree Planter 50 Grass Herb

Step 3: 10 20 30 40 Shrub Tree 50 Grass Herb Planter

Step 4: 10 20 30 40 50 Tree Grass Herb Planter Shrub

Step 5: 10 20 30 40 50 Grass Herb Planter Shrub Tree

Step 5, is the last step.

Based on the above Input, what will be the Output of the following information?

**INPUT: 11 55 Green Blue Red 33 Orange 22 44 Pink**



# MACHINE INPUT AND OUTPUT & CODED INEQUALITIES



So, the output for “**11 55 Green Blue Red 33 Orange 22 44 Pink**” is as follows:

Step 1: 11 22 55 Green Red 33 Orange 44 Pink Blue

Step 2: 11 22 33 55 Red Orange 44 Pink Blue Green

Step 3: 11 22 33 44 55 Red Pink Blue Green Orange

Step 4: 11 22 33 44 55 Red Blue Green Orange Pink

Step 5: 11 22 33 44 55 Blue Green Orange Pink Red

Step 5, being the final step.



# MACHINE INPUT AND OUTPUT & CODED INEQUALITIES



Q 1. How many steps does it take to get the final Output?

**Answer: (5) Five**

Q 2. What is the second last word/number in Step 2?

**Answer: (3) Blue**



