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**Logical Reasoning Tricks and Techniques for**

**Exam: IAS, PCS, UPSC, Bank PO, NDA, RRB, SSC, Indian Air Force, Etc.**

**VERBAL REASONING-SEQUENCING OUTPUT TRACING(ENGLISH)**

**Q1: Given the input: "23 45 -- 34 56".**

**Normal Method:**

Step 1: Identify the smallest number and place it first. Input: "12 23 45 34 56".

Step 2: From the remaining numbers, find the next smallest number and place it second. Input: "12 23 34 45 56".

Step 3: The third step rearranges the remaining numbers in the correct order. Since all numbers are now in order, the third step is the same as the second. Output: "12 23 34 45 56".

**Tips and Tricks:**

Simply rearrange the numbers in ascending order directly. The third step places 34 in the correct position. Output: "12 23 34 45 56".

**Q 2. Given the input: "apple banana cherry date". The machine arranges the words alphabetically. What is the second step?**

**Normal Method:**

Step 1: Identify the first word alphabetically. Input: "apple banana cherry date".

Step 2: From the remaining words, find the next word alphabetically. Input: "apple banana cherry date". Since the words are already in alphabetical order, the output is the same as the input. The second step remains "apple banana cherry date".

**Tips and Tricks:**

The words are already in alphabetical order. The second step is unchanged. Output: "apple banana cherry date".

**Q 3: Given the input: "5 1 4 2 3". The machine arranges numbers in descending order. What is the first step?**

**Normal Method:**

Step 1: Identify the largest number and place it first. Input: "5 1 4 2 3".

The remaining numbers are left as they are. The first step is "5 1 4 2 3".

**Tips and Tricks:**

Identify and place the largest number first. Output: "5 1 4 2 3".

**Q 4: Given the input: "sun moon star sky". The machine arranges the words in reverse alphabetical order. What is the final step?**

**Normal Method:**

Step 1: Identify the last word alphabetically and place it first. Input: "sun moon star sky".

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Step 2: From the remaining words, find the next last word alphabetically. Input: "sun star moon sky".

Step 3: Repeat for the remaining words. Input: "sky sun star moon".

Step 4: Final order: "star sun sky moon".

### Tips and Tricks:

Reverse alphabetical order directly. Output: "sun star sky moon".

**Q 5: Given the input: "14 25 35 45". The machine arranges the numbers in ascending order based on their unit place digit. What is the second step?**

### Normal Method:

Step 1: Identify the smallest unit place number. Input: "14 25 35 45".

Step 2: Rearrange the next smallest unit place number. Input: "14 25 35 45".

Second step places numbers in order of unit place digit: "14 25 35 45".

### Tips and Tricks:

Directly compare unit digits and arrange. Output: "14 25 35 45".

**Q 6: Given the input: "8 4 2 10". The machine arranges the numbers in increasing order of their even digits. What is the first step?**

### Normal Method:

Step 1: Identify the smallest even number. Input: "8 4 2 10".

Step 2: Rearrange accordingly. Input: "2 4 8 10".

First step places the smallest even number first. Output: "2 4 8 10".

### Tips and Tricks:

Arrange by even numbers directly. Output: "2 4 8 10".

**Q 7: Given the input: "cat dog bat rat". The machine arranges words based on the last letter. What is the third step?**

### Normal Method:

Step 1: Identify the first word based on the last letter. Input: "cat dog bat rat".

Step 2: Rearrange next accordingly. Input: "bat cat dog rat".

Step 3: Continue with the next word. Input: "bat cat dog rat".

Since the third step is the same as the final, the third step is "bat cat dog rat".

### Tips and Tricks:

Directly rearrange based on last letters. Output: "bat cat dog rat".

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**Q 8: Given the input: "34 23 12 45". The machine arranges numbers in ascending order based on the sum of digits. What is the second step?**

**Normal Method:**

Step 1: Identify the smallest sum of digits. Input: "34 23 12 45".

Step 2: Rearrange accordingly. Input: "12 23 34 45".

Second step rearranges by the sum of digits: "12 23 34 45".

**Tips and Tricks:**

Sum digits and arrange directly. Output: "12 23 34 45".

**Q 9: Given the input: "lion tiger bear cat". The machine arranges the words by length in descending order. What is the first step?**

**Normal Method:**

Step 1: Identify the longest word. Input: "tiger lion bear cat".

First step places the longest word first. Output: "tiger lion bear cat".

**Tips and Tricks:**

Directly identify the longest word. Output: "tiger lion bear cat".

**Q 10: Given the input: "red blue green yellow". The machine arranges words in alphabetical order. What is the final step?**

**Normal Method:**

Step 1: Identify the first word alphabetically. Input: "blue green red yellow".

Step 2: Next word. Input: "blue green red yellow".

Step 3: Continue until all words are in order. Input: "blue green red yellow".

Final step remains "blue green red yellow".

**Tips and Tricks:**

Arrange words alphabetically directly. Output: "blue green red yellow".

**Q 11: Given the input: "42 31 24 13". The machine arranges numbers in descending order of their first digits. What is the first step?**

**Normal Method:**

Step 1: Identify the highest first digit. Input: "42 31 24 13".

First step places the highest first digit first. Output: "42 31 24 13".

**Tips and Tricks:**

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Directly compare and arrange by first digits. Output: "42 31 24 13".

**Q 12: Given the input: "nine seven three one". The machine arranges the words by number value. What is the second step?**

**Normal Method:**

Step 1: Identify the smallest number word. Input: "one nine seven three".

Step 2: Rearrange next smallest number word. Input: "one three nine seven".

Second step orders by numerical value. Output: "one three seven nine".

**Tips and Tricks:**

Arrange directly by number values. Output: "one three seven nine".

**Q 13: Given the input: "8 16 4 12". The machine arranges numbers in ascending order based on their divisibility by 4. What is the second step?**

**Normal Method:**

Step 1: Identify the smallest divisible by 4. Input: "4 8 12 16".

Step 2: Rearrange next smallest. Input: "4 8 12 16".

Second step orders by divisibility by 4. Output: "4 8 12 16".

**Tips and Tricks:**

Directly arrange by divisibility. Output: "4 8 12 16".

**Q 14: Given the input: "circle square triangle rectangle". The machine arranges words by increasing number of sides. What is the third step?**

**Normal Method:**

Step 1: Identify the word with the fewest sides. Input: "circle triangle square rectangle".

Step 2: Next fewest sides. Input: "circle triangle square rectangle".

Step 3: Continue. Input: "circle triangle square rectangle".

Third step orders by sides. Output: "circle triangle square rectangle".

**Tips and Tricks:**

Directly order by number of sides. Output: "circle triangle square rectangle".

**Q 15: Given the input: "5 9 7 3". The machine arranges numbers in ascending order based on the product of their digits. What is the second step?**

**Normal Method:**

Step 1: Identify the smallest product of digits. Input: "3 5 7 9".

Step 2: Rearrange next smallest. Input: "3 5 7 9".

Second step orders by product of digits. Output: "3 5 7 9".

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### Tips and Tricks:

Directly arrange by the product of digits. Output: "3 5 7 9".

**Q 16: Given the input: "25 16 42 33". The machine arranges numbers in descending order based on the sum of their digits. What is the first step?**

### Normal Method:

Step 1: Identify the largest sum of digits. Input: "33 25 16 42".

First step places the largest sum of digits first. Output: "33 25 16 42".

### Tips and Tricks:

Directly compare and arrange by sum of digits. Output: "33 25 16 42".

**Q 17: Given the input: "apple orange banana grape". The machine arranges words based on the number of vowels in ascending order. What is the third step?**

### Normal Method:

Step 1: Identify the word with the fewest vowels. Input: "grape banana apple orange".

Step 2: Next fewest vowels. Input: "grape banana apple orange".

Step 3: Continue. Input: "grape banana apple orange".

Third step orders by number of vowels. Output: "grape banana apple orange".

### Tips and Tricks:

Directly order by the number of vowels. Output: "grape banana apple orange".

**Q 18: Given the input: "11 22 33 44". The machine arranges numbers in descending order based on their unit place digit. What is the second step?**

### Normal Method:

Step 1: Identify the highest unit place digit. Input: "44 33 22 11".

Step 2: Rearrange next highest. Input: "44 33 22 11".

Second step orders by unit place digit. Output: "44 33 22 11".

### Tips and Tricks:

Directly arrange by unit place digits. Output: "44 33 22 11".

**Q 19: Given the input: "dog cat rabbit mouse". The machine arranges words in alphabetical order. What is the final step?**

### Normal Method:

Step 1: Identify the first word alphabetically. Input: "cat dog mouse rabbit".

Step 2: Next word alphabetically. Input: "cat dog mouse rabbit".

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Step 3: Continue until all words are in order. Input: "cat dog mouse rabbit".  
Final step remains "cat dog mouse rabbit".

### Tips and Tricks:

Arrange words alphabetically directly. Output: "cat dog mouse rabbit".

**Q 20: Given the input: "4 1 3 2". The machine arranges numbers in descending order. What is the first step?**

### Normal Method:

Step 1: Identify the largest number. Input: "4 1 3 2".  
First step places the largest number first. Output: "4 1 3 2".

### Tips and Tricks:

Identify and place the largest number first. Output: "4 1 3 2".

**Q 21: Given the input: "spring summer autumn winter". The machine arranges the words by season order. What is the second step?**

### Normal Method:

Step 1: Identify the first season. Input: "spring summer autumn winter".  
Step 2: Next season. Input: "spring summer autumn winter".  
Second step places the seasons in order. Output: "spring summer autumn winter".

### Tips and Tricks:

Directly arrange by season order. Output: "spring summer autumn winter".

**Q 22: Given the input: "19 29 39 49". The machine arranges numbers in ascending order based on the sum of their digits. What is the first step?**

### Normal Method:

Step 1: Identify the smallest sum of digits. Input: "19 29 39 49".  
First step places the smallest sum of digits first. Output: "19 29 39 49".

### Tips and Tricks:

Directly compare and arrange by sum of digits. Output: "19 29 39 49".

**Q 23: Given the input: "alpha beta gamma delta". The machine arranges words in reverse alphabetical order. What is the third step?**

### Normal Method:

Step 1: Identify the last word alphabetically. Input: "gamma delta beta alpha".

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Step 2: Next last word alphabetically. Input: "gamma delta beta alpha".

Step 3: Continue. Input: "gamma delta beta alpha".

Third step orders by reverse alphabetical order. Output: "gamma delta beta alpha".

### Tips and Tricks:

Directly order by reverse alphabetical order. Output: "gamma delta beta alpha".

**Q 24: Given the input: "elephant tiger lion bear". The machine arranges the words by length in ascending order. What is the final step?**

### Normal Method:

Step 1: Identify the shortest word. Input: "bear lion tiger elephant".

Step 2: Next shortest word. Input: "bear lion tiger elephant".

Step 3: Continue until all words are in order. Input: "bear lion tiger elephant".

Final step remains "bear lion tiger elephant".

### Tips and Tricks:

Arrange words by length directly. Output: "bear lion tiger elephant".

**Q 25: Given the input: "32 21 12 23". The machine arranges numbers in ascending order based on the first digit. What is the second step?**

### Normal Method:

Step 1: Identify the smallest first digit. Input: "12 21 23 32".

Step 2: Rearrange next smallest. Input: "12 21 23 32".

Second step orders by first digit. Output: "12 21 23 32".

### Tips and Tricks:

Directly compare and arrange by first digits. Output: "12 21 23 32".

**Q 26: Given the input: "octopus shark whale dolphin". The machine arranges words based on the number of letters in ascending order. What is the third step?**

### Normal Method:

Step 1: Identify the shortest word. Input: "shark whale dolphin octopus".

Step 2: Next shortest word. Input: "shark whale dolphin octopus".

Step 3: Continue. Input: "shark whale dolphin octopus".

Third step orders by the number of letters. Output: "shark whale dolphin octopus".

### Tips and Tricks:

Directly order by the number of letters. Output: "shark whale dolphin octopus".

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**Q 27: Given the input: "25 14 32 47". The machine arranges numbers in ascending order based on their unit place digit. What is the second step?**

**Normal Method:**

Step 1: Identify the smallest unit place digit. Input: "32 14 25 47".

Step 2: Rearrange next smallest. Input: "32 14 25 47".

Second step orders by unit place digit. Output: "32 14 25 47".

**Tips and Tricks:**

Directly arrange by unit digits. Output: "32 14 25 47".

**Q 28: Given the input: "earth mars jupiter saturn". The machine arranges words in alphabetical order. What is the final step?**

**Normal Method:**

Step 1: Identify the first word alphabetically. Input: "earth jupiter mars saturn".

Step 2: Next word alphabetically. Input: "earth jupiter mars saturn".

Step 3: Continue until all words are in order. Input: "earth jupiter mars saturn".

Final step remains "earth jupiter mars saturn".

**Tips and Tricks:**

Arrange words alphabetically directly. Output: "earth jupiter mars saturn".

**Q 29: Given the input: "15 26 37 48". The machine arranges numbers in descending order based on the sum of their digits. What is the first step?**

**Normal Method:**

Step 1: Identify the largest sum of digits ( $4+8=12$ ,  $3+7=10$ ,  $2+6=8$ ,  $1+5=6$ ). Input: "48 15 26 37".

First step places the number with the largest sum of digits first. Output: "48 15 26 37".

**Tips and Tricks:**

Directly identify and place the number with the largest sum of digits. Output: "48 15 26 37".

**Q 30: Given the input: "dog cat bat rat". The machine arranges words based on the last letter in alphabetical order. What is the final step?**

**Normal Method:**

Step 1: Identify the first word based on the last letter (bat). Input: "bat cat dog rat".

Step 2: Next word (cat). Input: "bat cat dog rat".

Step 3: Continue until all words are in order. Input: "bat cat dog rat".

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Final step remains "bat cat dog rat".

### Tips and Tricks:

Arrange words directly based on the last letter. Output: "bat cat dog rat".

**Q 31: Given the input: "99 88 77 66". The machine arranges numbers in ascending order based on the first digit. What is the second step?**

### Normal Method:

Step 1: Identify the smallest first digit (6, 7, 8, 9). Input: "66 77 88 99".

Step 2: Rearrange next smallest. Input: "66 77 88 99".

Second step orders by first digit. Output: "66 77 88 99".

### Tips and Tricks:

Directly compare and arrange by first digits. Output: "66 77 88 99".

**Q 32: Given the input: "water fire earth air". The machine arranges words by element order. What is the second step?**

### Normal Method:

Step 1: Identify the first element. Input: "air fire earth water".

Step 2: Next element. Input: "air earth fire water".

Second step places the elements in order. Output: "air earth fire water".

### Tips and Tricks:

Directly arrange by element order. Output: "air earth fire water".

**Q 33: Given the input: "16 32 24 48". The machine arranges numbers in descending order based on their divisibility by 8. What is the first step?**

### Normal Method:

Step 1: Identify the largest number divisible by 8. Input: "48 32 24 16".

First step places the largest divisible number first. Output: "48 32 24 16".

### Tips and Tricks:

Directly arrange by divisibility by 8. Output: "48 32 24 16".

**Q 34: Given the input: "cat dog bird fish". The machine arranges words based on the number of consonants in ascending order. What is the third step?**

### Normal Method:

Step 1: Identify the word with the fewest consonants. Input: "cat dog bird fish".

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Step 2: Next fewest consonants. Input: "cat dog bird fish".

Step 3: Continue. Input: "cat dog bird fish".

Third step orders by the number of consonants. Output: "cat dog bird fish".

### Tips and Tricks:

Directly order by the number of consonants. Output: "cat dog bird fish".

**Q 35: Given the input: "44 33 22 11". The machine arranges numbers in descending order based on the product of their digits. What is the second step?**

### Normal Method:

Step 1: Identify the highest product of digits ( $44=16$ ,  $33=9$ ,  $22=4$ ,  $11=1$ ). Input: "44 33 22 11".

Step 2: Rearrange next highest. Input: "44 33 22 11".

Second step orders by product of digits. Output: "44 33 22 11".

### Tips and Tricks:

Directly arrange by the product of digits. Output: "44 33 22 11".

**Q 36: Given the input: "red blue green yellow". The machine arranges words based on the number of letters in descending order. What is the final step?**

### Normal Method:

Step 1: Identify the longest word. Input: "yellow green blue red".

Step 2: Next longest word. Input: "yellow green blue red".

Step 3: Continue until all words are in order. Input: "yellow green blue red".

Final step remains "yellow green blue red".

### Tips and Tricks:

Arrange words by length directly. Output: "yellow green blue red".

**Q 37: Given the input: "19 28 37 46". The machine arranges numbers in ascending order based on the sum of their digits. What is the first step?**

### Normal Method:

Step 1: Identify the smallest sum of digits ( $1+9=10$ ,  $2+8=10$ ,  $3+7=10$ ,  $4+6=10$ ). Input: "19 28 37 46".

First step places the smallest sum of digits first. Output: "19 28 37 46".

### Tips and Tricks:

Directly compare and arrange by sum of digits. Output: "19 28 37 46".

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