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# Sequential Output Tracing Questions for RBI Grade B, RBI Assistant Mains, SBI Clerk Mains and IBPS Clerk Mains Exams.

## Set 55

**Directions:** Read the given information carefully and answer the questions given beside:

A word and number arrangement machine, when given an input line of words and numbers, it rearranges them following a particular rule. The following is an illustration of input and rearrangement, steps.

**Input:** 12 do dabble 10 city 7 clade 8 boar 5 black 2 ahura 1 ahead 3

**Step I:** 3 ahura 12 do dabble 10 city 7 clade 8 boar 5 black 2 ahead 3

**Step II:** 0 ahead 3 ahura 12 do dabble 10 city 7 clade 8 boar 5 black 3

**Step III:** 5 black 0 ahead 3 ahura 12 do dabble 10 city 7 clade 8 boar 5

**Step IV:** 7 boar 5 black 0 ahead 3 ahura 12 do dabble 10 city 7 clade 8

**Step V:** 9 clade 7 boar 5 black 0 ahead 3 ahura 12 do dabble 10 city 8

**Step VI:** 6 city 9 clade 7 boar 5 black 0 ahead 3 ahura 12 do dabble 10

**Step VII:** 8 dabble 6 city 9 clade 7 boar 5 black 0 ahead 3 ahura 12 do

**Step VIII:** 10 do 8 dabble 6 city 9 clade 7 boar 5 black 0 ahead 3 ahura

And step VIII is the last step of the rearrangement of the above input as intended rearrangement is obtained.

As per the rules followed in the above step, indicate the answer in each of the following questions with respect to the appropriate step for the given input

### Questions :

**1. Find the sum of the last two numbers of step VI?**

- A. 30                      B. 32                      C. 22                      D. 20                      E. None of these

**2. Which one of the following is the last required step of the rearrangement?**

- A. Step VII                      B. Step VI                      C. Step VIII                      D. Step V                      E. None of these

**3. Which one of the following is second to the left of "last" in step IV?**

- A. pub                      B. late                      C. 7                      D. 4                      E. None of these

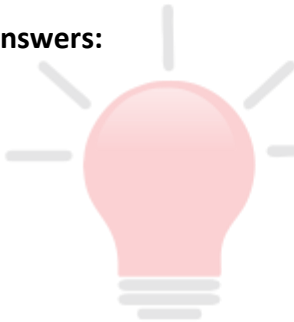
4. Which one of the following element is first from the left end of Step VII?

- A. tack                      B. table                      C. 12                      D. 14                      E. None of these

5. Four of the following five are alike in a certain way and thus form a group. Which one of the following does not belong to that group (Consider final step to answer)?

- A. table 15 sorry              B. pub 7 last              C. 13 seen 6              D. public 14 pub              E. last 5 late

Correct Answers:



1	2	3	4	5
A	C	A	C	D

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## Common explanation:

**Input:** 13 tack 6 last 11 table 8 seen 5 sorry 16 late 14 pub 3 public

**Step I:** 5 late 13 tack 6 last 11 table 8 seen 5 sorry 16 14 pub public

**Step II:** 7 last 5 late 13 tack 6 11 table 8 seen sorry 16 14 pub public

**Step III:** 4 pub 7 last 5 late 13 tack 11 table 8 seen sorry 16 14 public

**Step IV:** 6 public 4 pub 7 last 5 late 13 tack 11 table seen sorry 16 14

**Step V:** 13 seen 6 public 4 pub 7 last 5 late 13 tack table sorry 16 14

**Step VI:** 15 sorry 13 seen 6 public 4 pub 7 last 5 late tack table 16 14

**Step VII:** 12 table 15 sorry 13 seen 6 public 4 pub 7 last 5 late tack 16

**Step VIII:** 14 tack 12 table 15 sorry 13 seen 6 public 4 pub 7 last 5 late

**Here:** Logic applied in each step is applied first on number then on word in the same step.

### Logic for Numbers:

- Numbers are considered in the ascending order; if the number is an odd number 2 is added to it and then is fixed at the extreme left and if the number is an even number 2 is subtracted from it and is then shifted to the extreme left.

### Logic for words:

- Words are arranged in the ascending order of the English alphabetical series where the first letter is considered first and then the last letter; if the first letter of two words is same then decision has to be made according to the last letter of those words. Last letter which appears first in the English alphabetical series from A to Z has to be sent to the extreme left and then in the next step the other word is rearranged.
- Word sent to the extreme left has to be written after the number rearranged their.

### Reference:

#### Input → Step I:

**Input:** 12 do dabble 10 city 7 clade 8 boar 5 black 2 ahura 1 ahead 3

**Step I:** 3 ahura 12 do dabble 10 city 7 clade 8 boar 5 black 2 ahead 3

#### Inference:

**For getting Step I,** smallest number "1" is sent to the extreme left after adding two in it as it is an odd number and "ahura" which as per the above logic is first to be rearranged and is written after the rearranged number.

**Input:** 13 tack 6 last 11 table 8 seen 5 sorry 16 late 14 pub 3 public

Applying the same logic as above to get the output of step I

**Step I:** 5 late 13 tack 6 last 11 table 8 seen 5 sorry 16 14 pub public

**Reference:**

**Step I → Step II**

**Step II:** 0 ahead 3 ahura 12 do dabble 10 city 7 clade 8 boar 5 black 3

**Inference:**

**In the above step, "2"** which is an even number is shifted to the extreme left after subtracting two from it and "ahead" which starts with "a" but is still chosen in second step for rearrangement as it starts with "a" but ends with "d"

Applying the same logic as above to get the output of step II

**Step II:** 7 last 5 late 13 tack 6 11 table 8 seen sorry 16 14 pub public

**Reference:**

**Step II → Step III**

**Step III:** 5 black 0 ahead 3 ahura 12 do dabble 10 city 7 clade 8 boar 5

**Inference:**

Applying the same logic,

**Step III:** 4 pub 7 last 5 late 13 tack 11 table 8 seen sorry 16 14 public

**Reference:**

**Step III → Step IV**

**Step IV:** 7 boar 5 black 0 ahead 3 ahura 12 do dabble 10 city 7 clade 8

**Inference:**

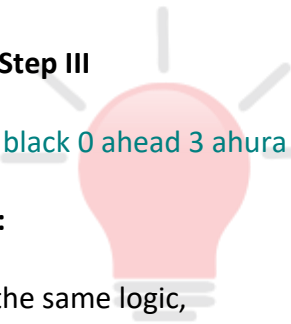
**Step IV:** 6 public 4 pub 7 last 5 late 13 tack 11 table seen sorry 16 14

**Reference:**

**Step IV → Step V**

**Step V:** 9 clade 7 boar 5 black 0 ahead 3 ahura 12 do dabble 10 city 8

**Inference:**



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Using the same trick again,

**Step V:** 13 seen 6 public 4 pub 7 last 5 late 13 tack table sorry 16 14

**Reference:**

**Step V → Step VI**

**Step VI:** 6 city 9 clade 7 boar 5 black 0 ahead 3 ahura 12 do dabble 10

**Inference:**

Using the same trick again,

**Step VI:** 15 sorry 13 seen 6 public 4 pub 7 last 5 late tack table 16 14

**Reference:**

**Step VI → Step VII**

**Step VII:** 8 dabble 6 city 9 clade 7 boar 5 black 0 ahead 3 ahura 12 do

**Inference:**

**Step VII:** 12 table 15 sorry 13 seen 6 public 4 pub 7 last 5 late tack 16

**Reference:**

**Step VII → Step VIII**

**Step VIII:** 10 do 8 dabble 6 city 9 clade 7 boar 5 black 0 ahead 3 ahura

**Inference:**

**Step VIII:** 14 tack 12 table 15 sorry 13 seen 6 public 4 pub 7 last 5 late

Hence, we get the Final Output in eighth step of the input and the final output is as follows:

**Final output:** 14 tack 12 table 15 sorry 13 seen 6 public 4 pub 7 last 5 late



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## Answers :

1. From the common explanation, we get

Last two numbers of step VI are 16 and 14.

So, the sum is 30.

Option A, is hence the correct answer.

2. From the common explanation, we get

Step VIII is the final step.

Option C, is hence the correct answer.

3. From the common explanation, we get

“pub” is second to the left of “last” in step IV.

Option A, is hence the correct answer.

4. From the common explanation, we get

“12” is first from the left end of the step VII.

Option C, is hence the correct answer.

5. From the common explanation, we get

“public 14 pub”; only these three elements of final step are not aligned as per the order so is different from the group.

Option D, is hence the correct answer.



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