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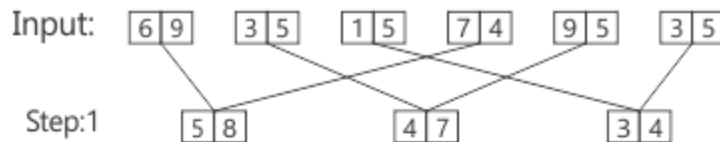
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## Sequential Output Tracing Quiz Questions for IBPS PO Mains, SBI PO Mains & RBI Grade B Exams.

### Set No 14

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

In the following input output sequence, the steps are obtained by applying certain logic. Each step is a resultant of previous step.



Step:2 

2	3
---	---

6	0
---	---

Step:3 

13
----

36
----

Step:4 

23
----

Input: 

6	3
---	---

1	6
---	---

8	3
---	---

7	8
---	---

6	9
---	---

5	4
---	---

**Questions :**

**1. What will be the square of the final step?**

- A. 49      B. 529      C. 64      D. 81      E. None of these

**2. If the difference of step II is multiplied by final step, find the resultant number?**

- A. 63      B. 56      C. 851      D. 441      E. None of these

**3. What is the product of the smaller number of step III to the larger number of step II?**

- A. 697      B. 1025      C. 578      D. 850      E. None of these

**4. Find the difference between the numbers of step III?**

- A. 13      B. 16      C. 9      D. 8      E. None of these

**5. Find the average number of step I?**

- A. 56.25      B. 41.5      C. 65      D. 62.30      E. None of these

**Correct Answers:**

1	2	3	4	5
C	B	A	D	C

**Common Explanations:****Reference:**

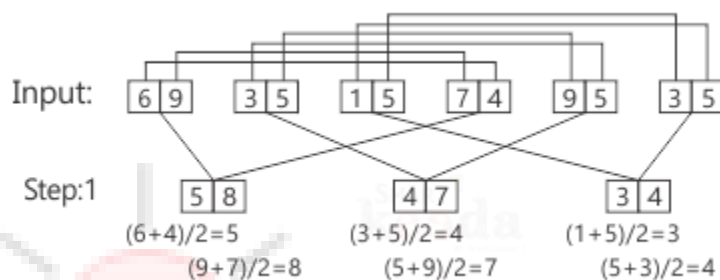
First of all we will try to know how we can get

5, 8, 4, 7 and 3, 4:

$$(6 + 4)/2 = 5, (9 + 7)/2 = 8$$

$$(3 + 5)/2 = 4, (5 + 9)/2 = 7$$

$$(1 + 5)/2 = 3, (5 + 3)/2 = 4 \text{ so:}$$

**Inference:**

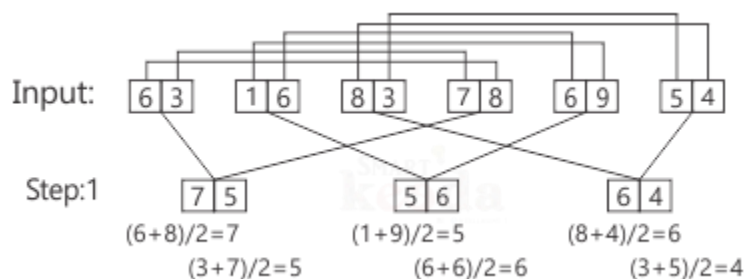
Applying the same logic as used above:

7, 5, 6 and 6, 4

$$(6 + 8)/2 = 7, (3 + 7)/2 = 5$$

$$(1 + 9)/2 = 5, (6 + 6)/2 = 6$$

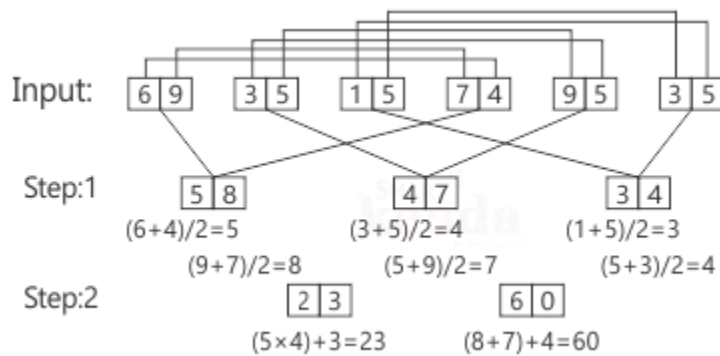
$$(8 + 4)/2 = 6, (3 + 5)/2 = 4 \text{ so:}$$

**Reference:**

Now we will see that how we can get 2, 3 and 6, 0.

$$(5 \times 4) + 3 = 23,$$

$$(8 \times 7) + 4 = 60$$

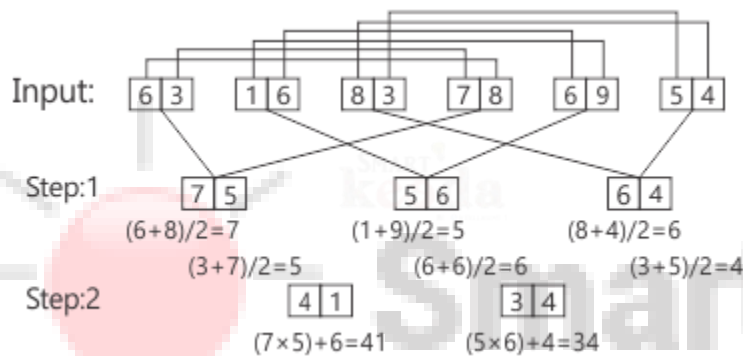


### Inference:

Applying the same logic as used above:

$$(7 \times 5) + 6 = 41,$$

$$(5 \times 6) + 4 = 34$$

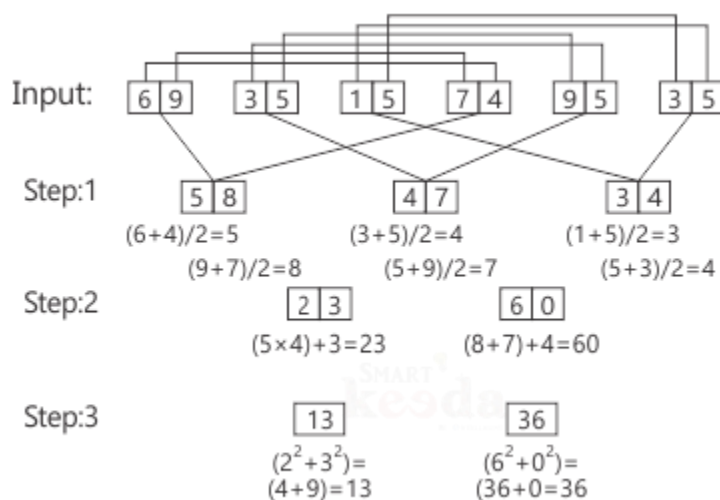


### Reference:

Now, to reach the next step we need to add the squares of the numbers

Square of 2 = 4, square of 3 = 9 and  $4 + 9 = 13$

Square of 6=36, Square of 0= 0 and  $36 + 0 = 36$



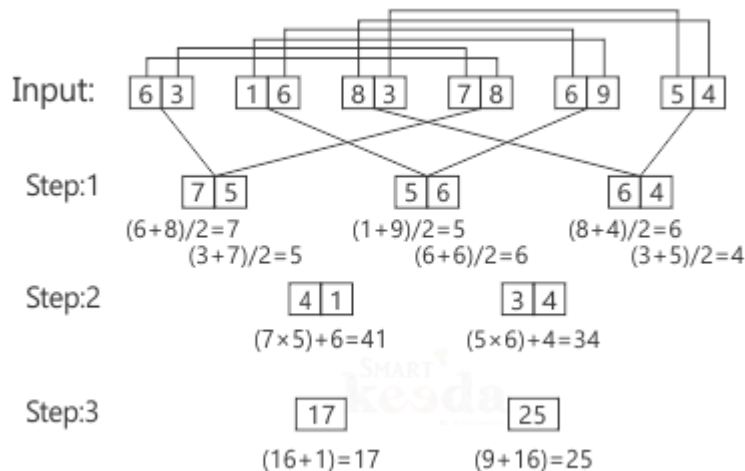


### Inference:

Now , applying the same pattern,

Square of 4 = 16, Square of 1 = 1 and  $16 + 1 = 17$ .

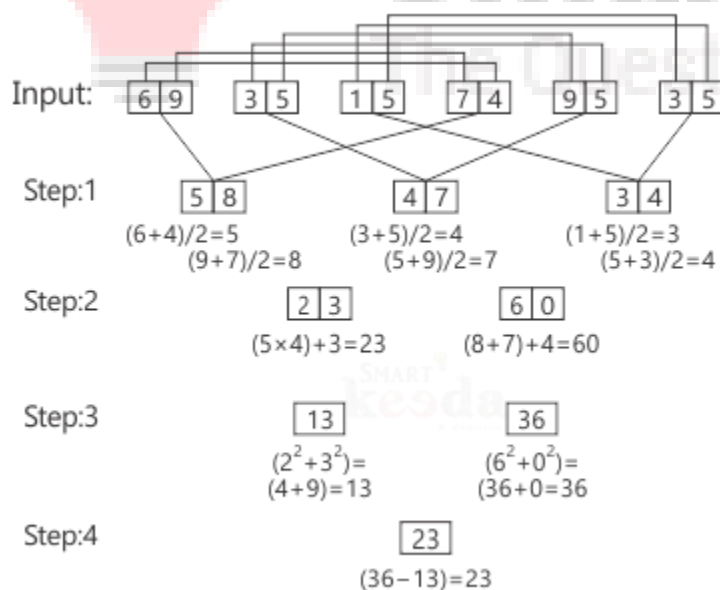
Square of 3 = 9, Square of 4 = 16 and  $9 + 16 = 25$ .



### Reference:

In the final step, we just need to subtract the first number from second number.

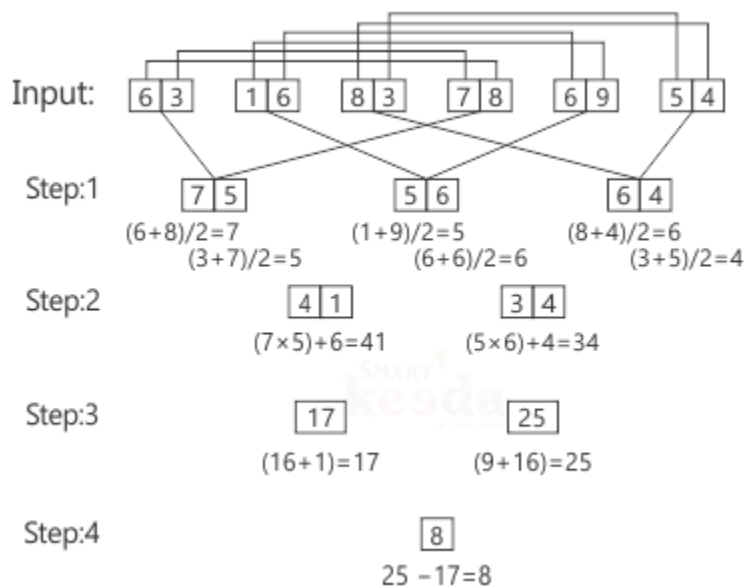
$$36 - 13 = 23$$



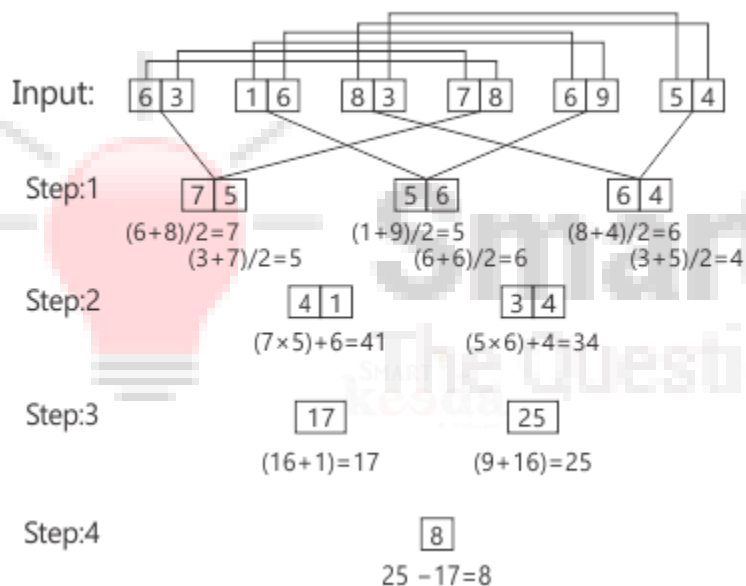
### Inference:

Applying the same logic as used above to reach the final step:

$$25 - 17 = 8.$$



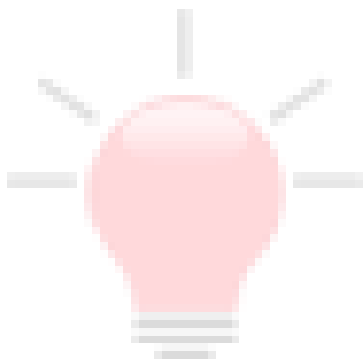
**Final Output:**



**Answers :**

- Following the common explanation, we get that:  
64 is the square of the final step  
Option C, is hence the correct answer.
- Following the common explanation, we get that  
If the difference of step II is multiplied by final step, resultant number is 56  
Option B, is hence the correct answer.

3. Following the common explanation, we get that 697 is the product of the smaller number of step III to the larger number of step II. Option A, is hence the correct answer.
4. Following the common explanation, we get that Difference between the numbers of step III is 8. Option D, is hence the correct answer.
5. From the common explanation we get Average number of step I is 65. Option C, is hence the correct answer.



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