**Step 1:-Understand the problem**

1. Can we restate the problem in our own words?

Find the number which is not there

1. What are the inputs that go into the problem?

An array in the range [0,n]

1. What are the outputs that come from the problem?

Int

1. Can the outputs be determined from the inputs? In other words do we have enough information to solve this problem?

Yes we do

5. What should I label the important piece of data that are the part of a problem?

**Step 2:-Explore examples**

1. Start with simple examples

[0,1,3]

2

[1,2,4,0,5]

3

1. Progress to more complex examples
2. [1,2,3]
3. 0

3. Explore examples with empty

[]

0

4. Explore the examples with invalid inputs

**Step 3:-Break it down**

**Step 4:-Solve/Simplify**

No difficulty

* Find the core difficulty
* Temporarily ignore that difficulty
* Write a simplified solution
* Then incorporate that difficulty

**Step 5:-Look back refractor**

1. Can we check the result?
2. Can we drive the result differently?

By using sum method

1. Can we understand it at a glance?
2. Can we use the result or method for some other problem?
3. Can you improve the performance of your solution?
4. How other people solve this problem?