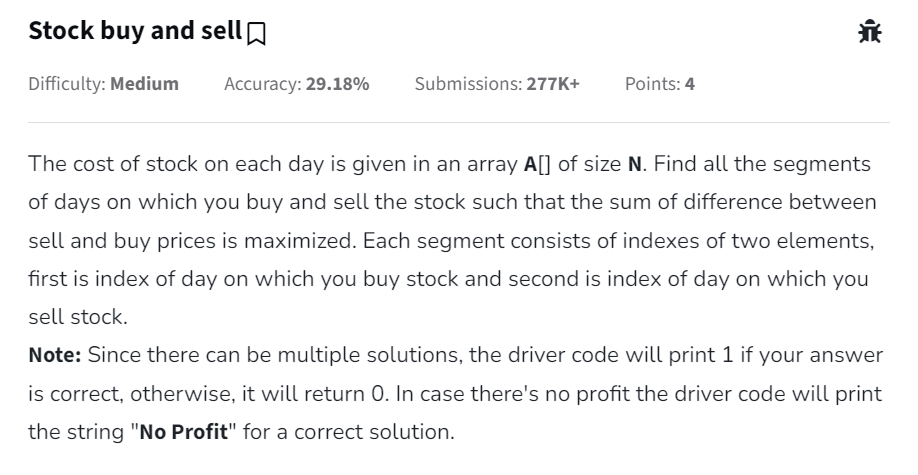
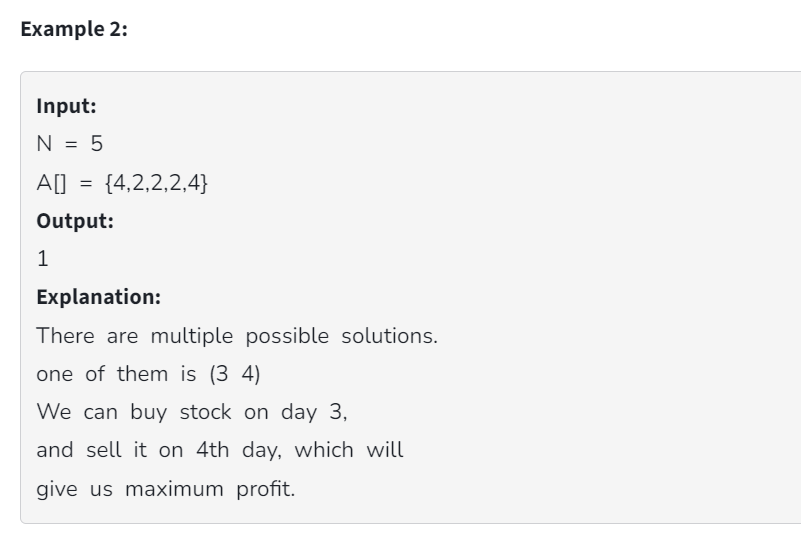
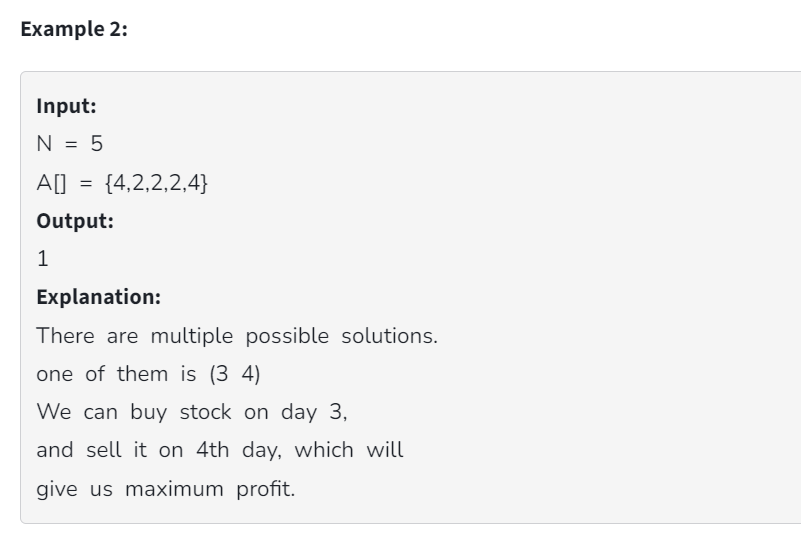
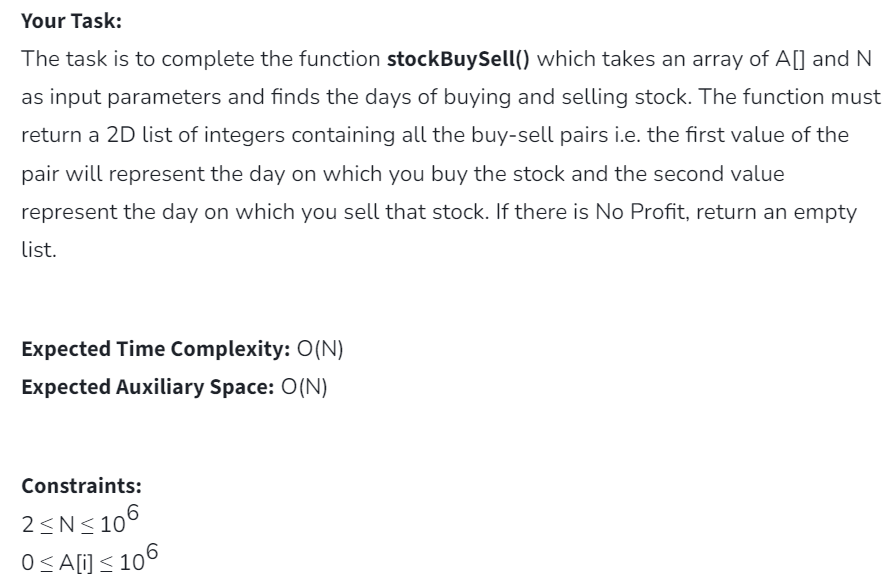
**14/11/24 PRACTICE PROBLEM FIZA THASHIN A(AI&DS)**

**1)**

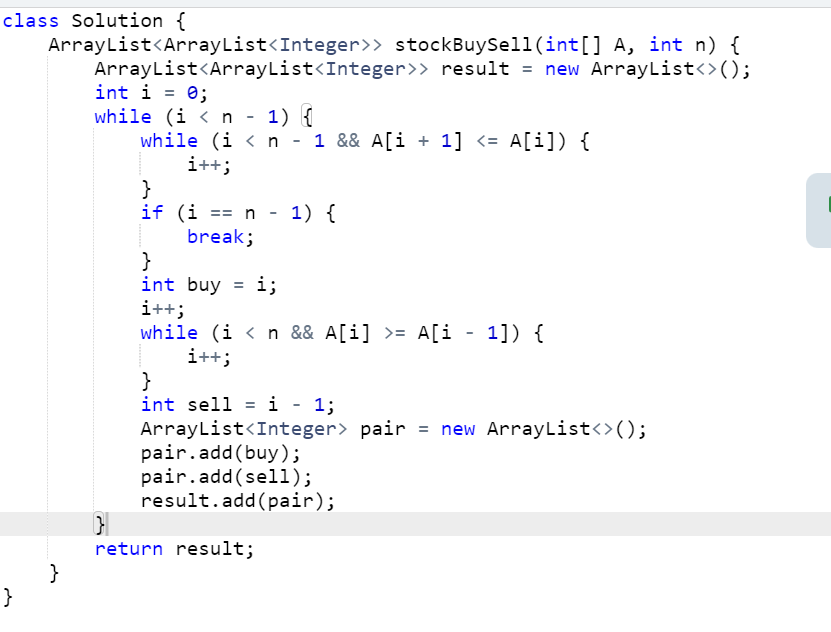
****

****

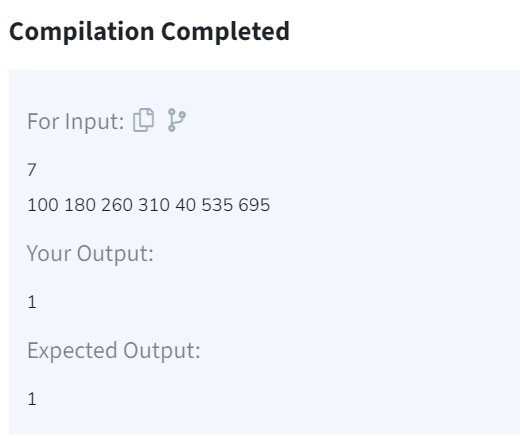
****

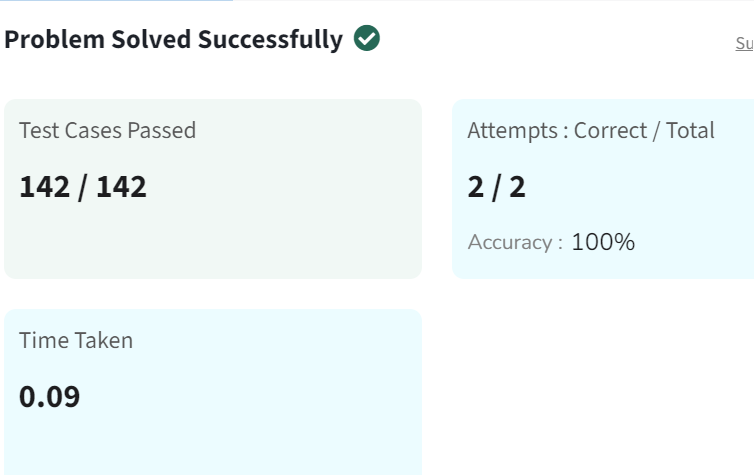
****

**SOLUTION**

****

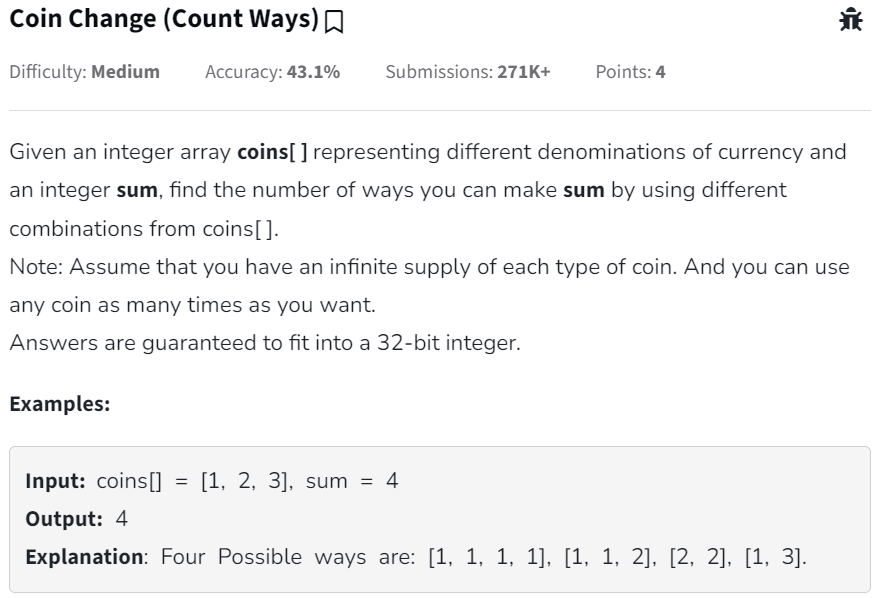
**OUTPUT**

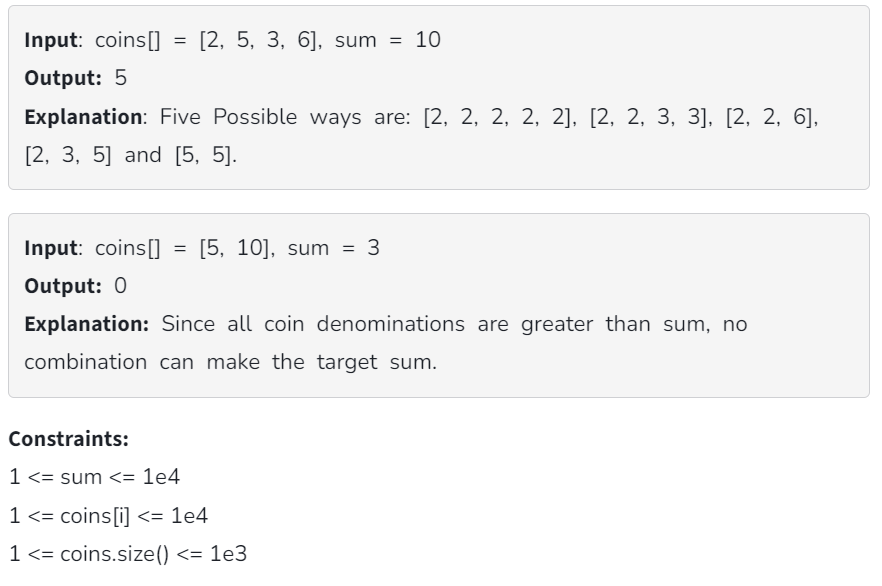
****

****

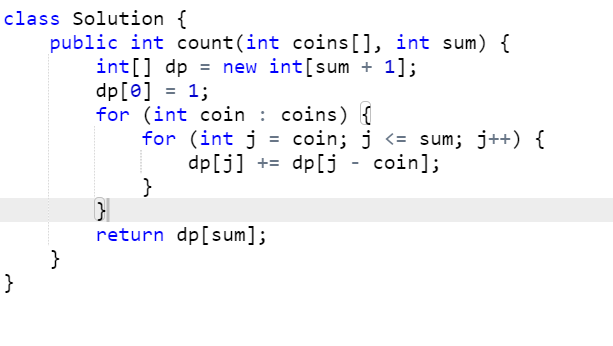
**TIME COMPLEXITY - O(N).**

**2)**

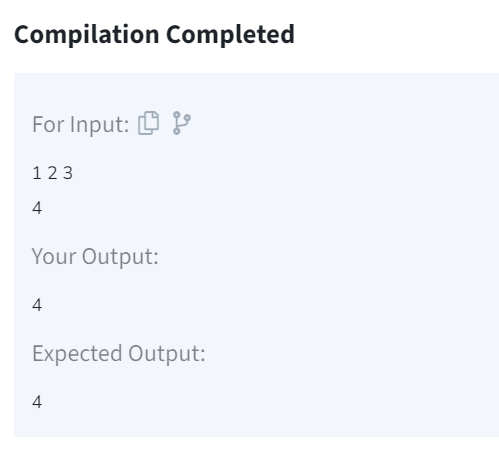
****

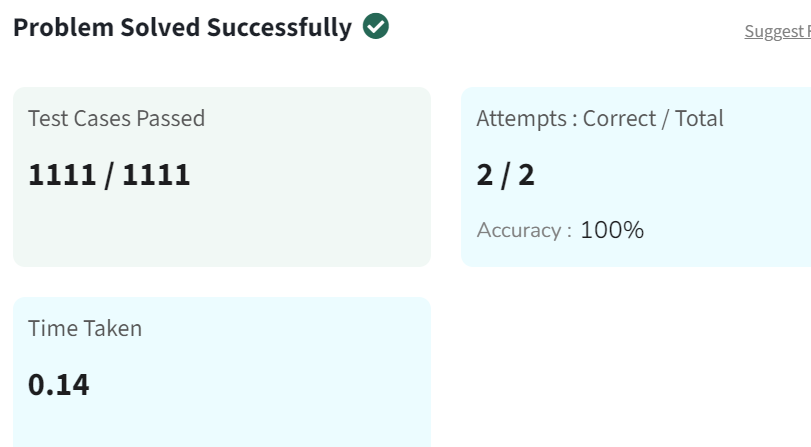
****

**SOLUTION**

****

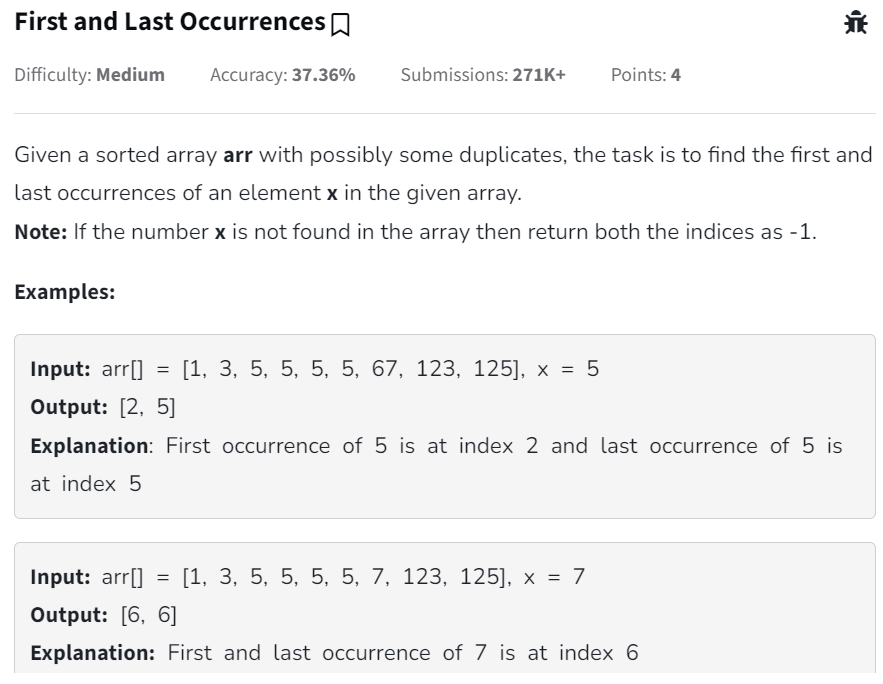
**OUTPUT**

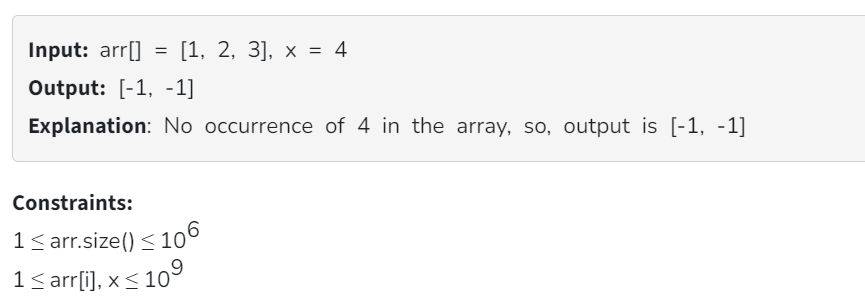
****

****

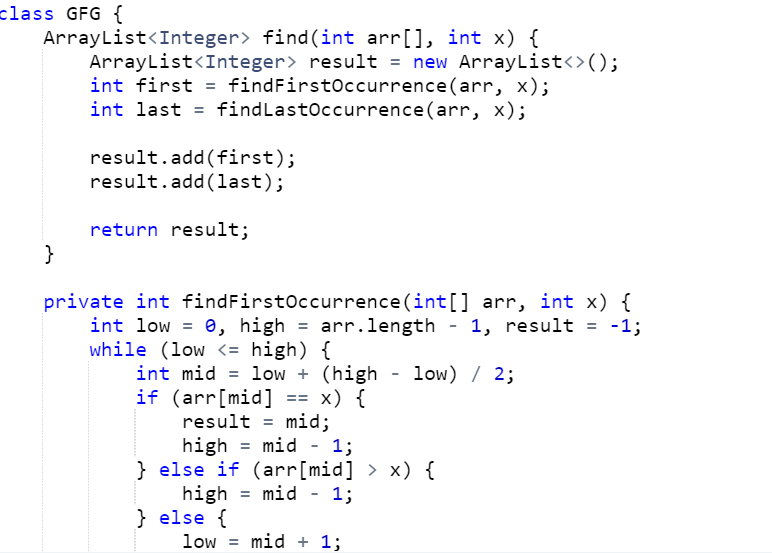
**TIME COMPLEXITY - O(N)**

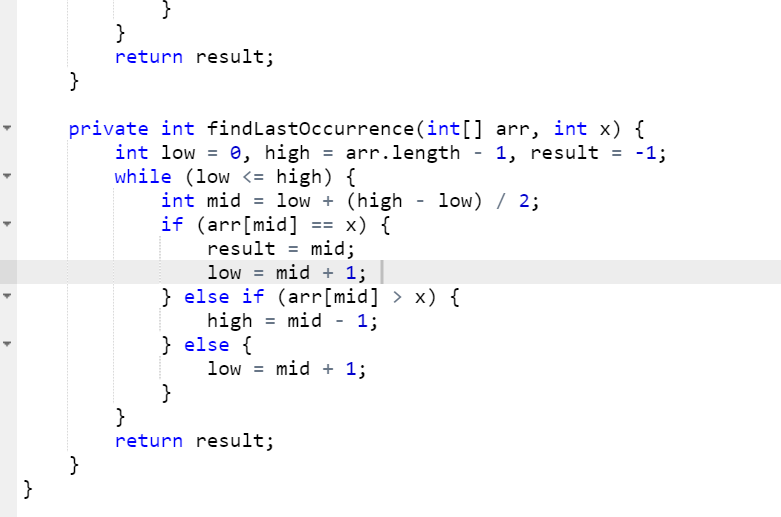
**3)**

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****

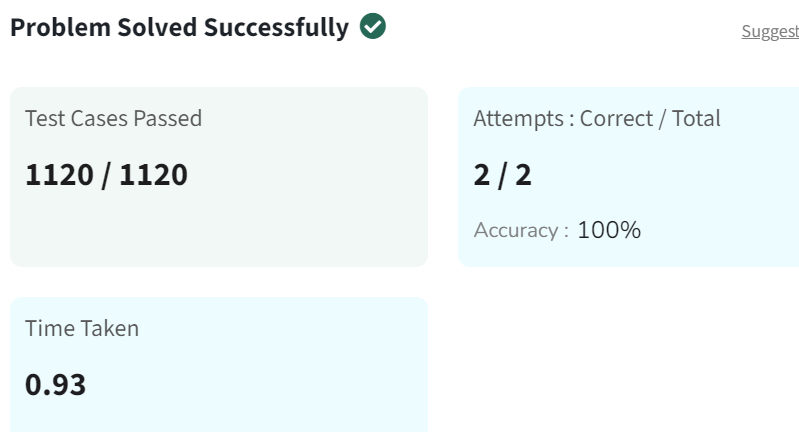
**SOLUTION**

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**OUTPUT**

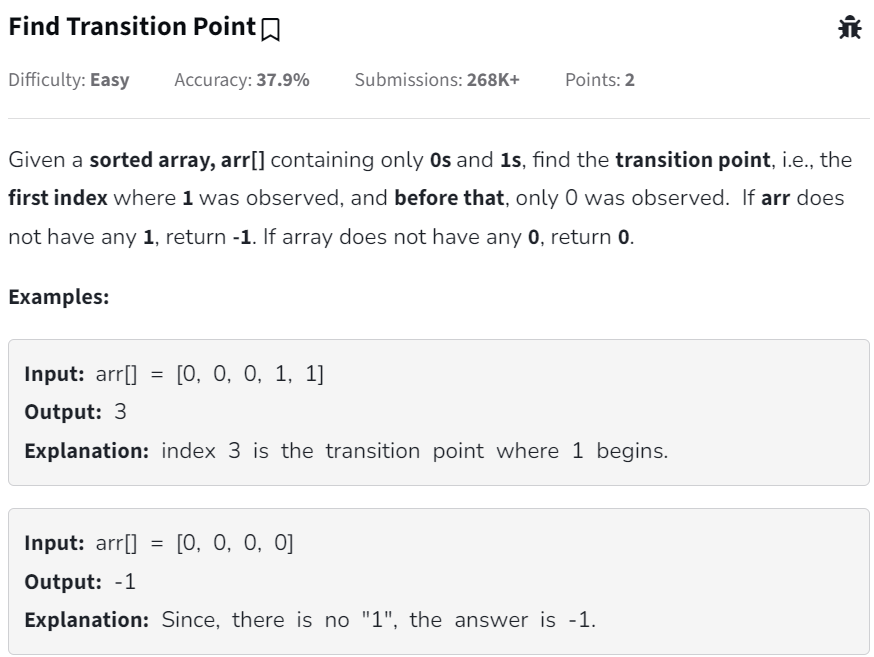
****

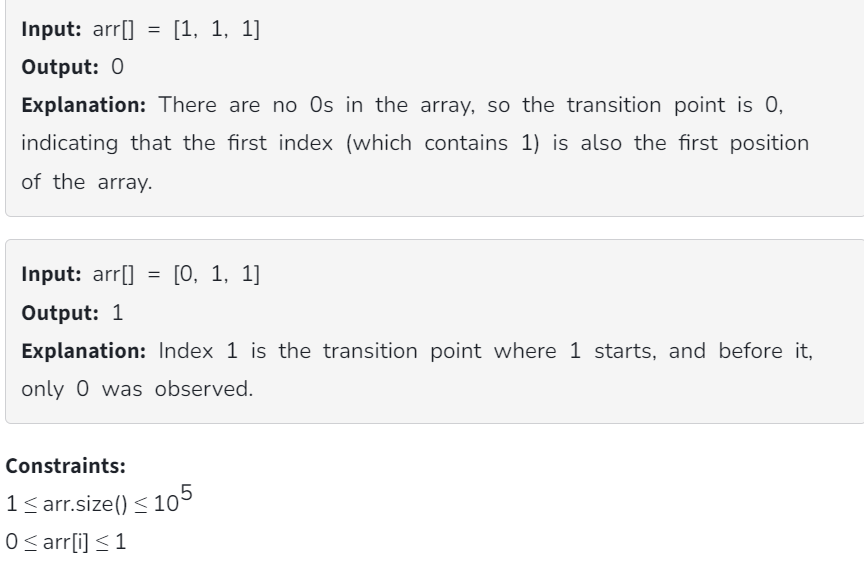
****

**TIME COMPLEXITY**

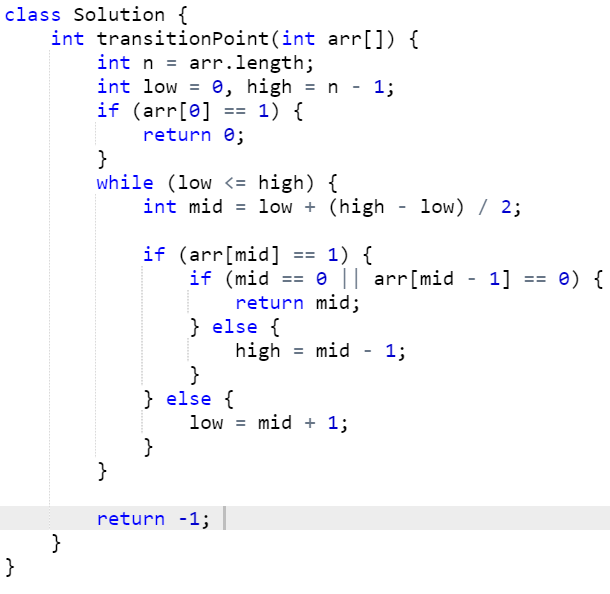
**O(log N)**

**4)**

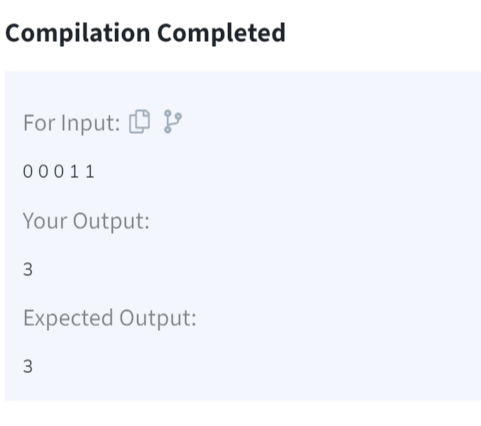
****

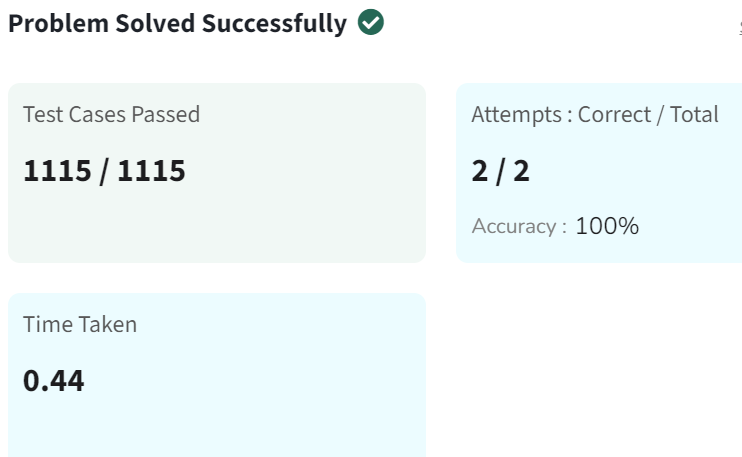
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**SOLUTION**

****

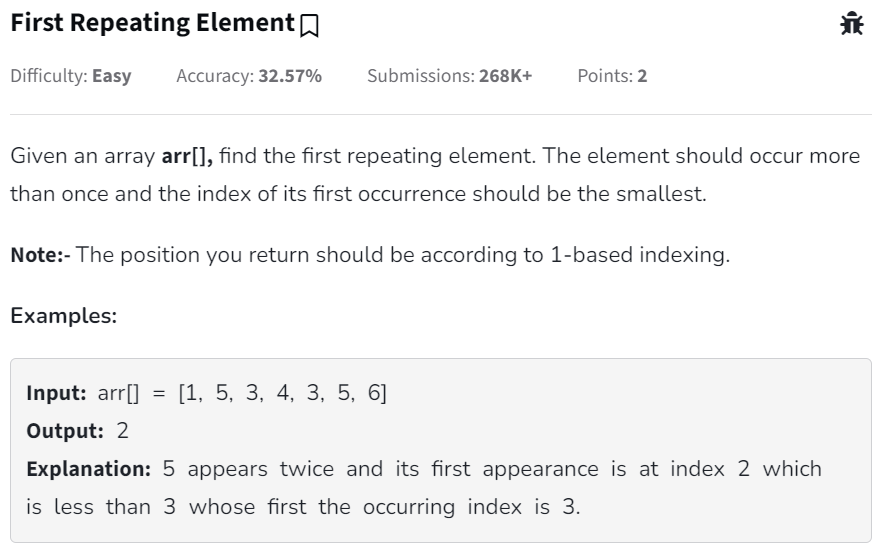
**OUTPUT**

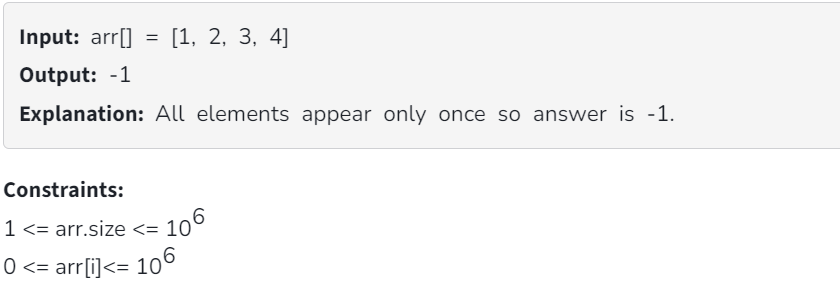
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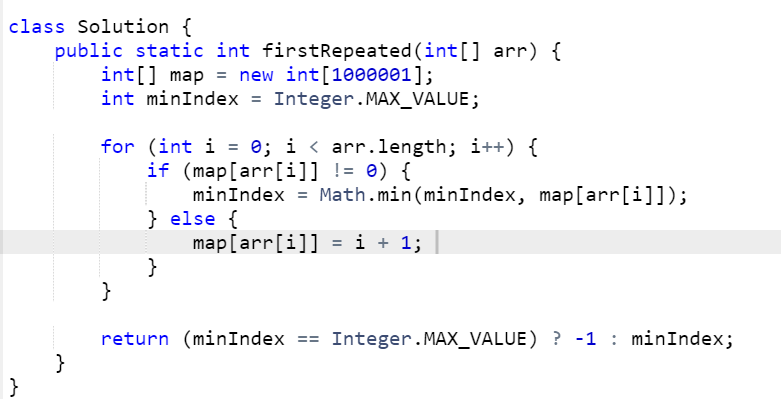
**TIME COMPLEXITY - O(log N)**

**5)**

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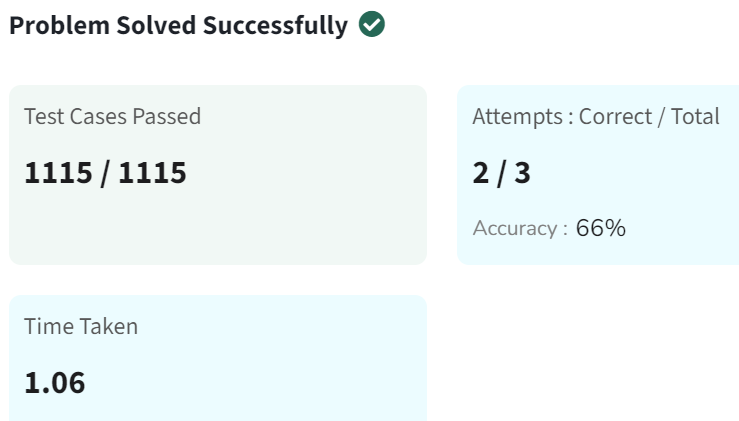
****

**SOLUTION**

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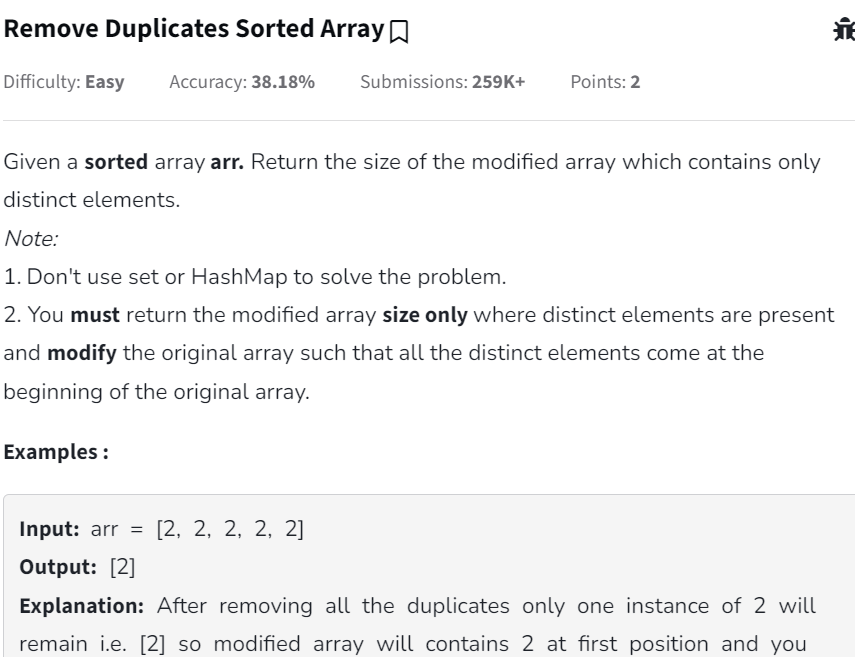
**OUTPUT**

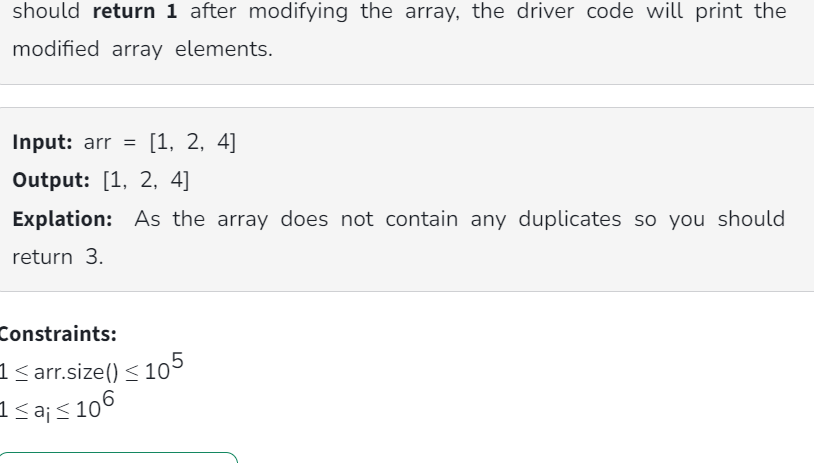
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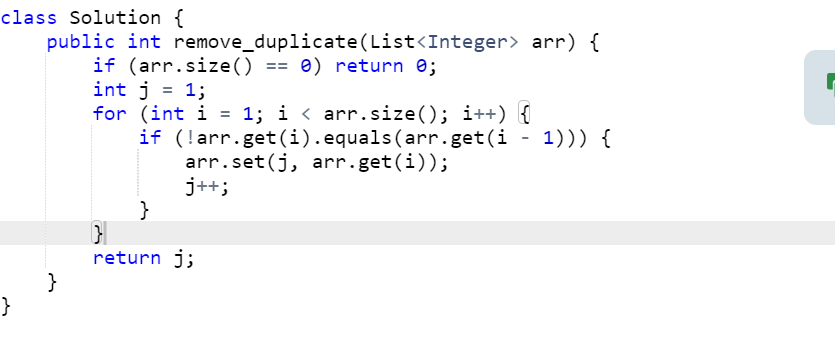
**TIME COMPLEXITY - O(n)**

**6)**

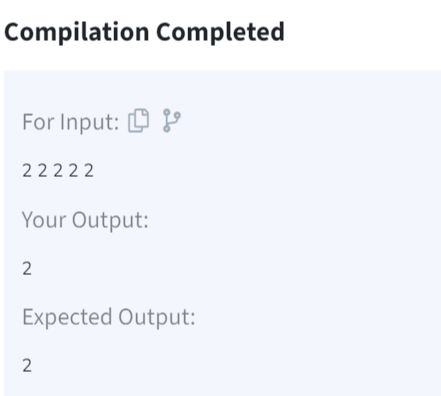
****

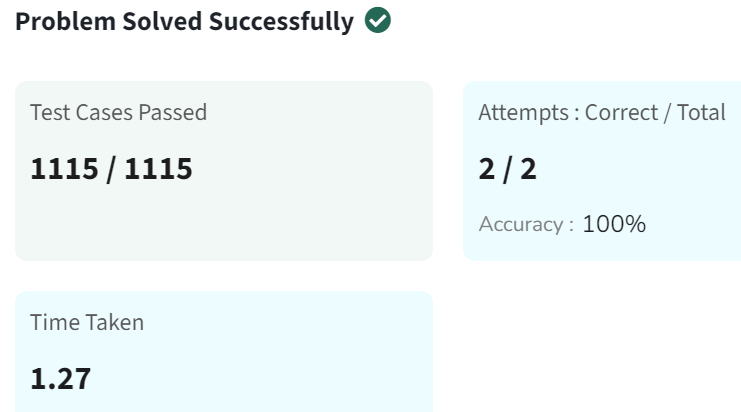
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**SOLUTION**

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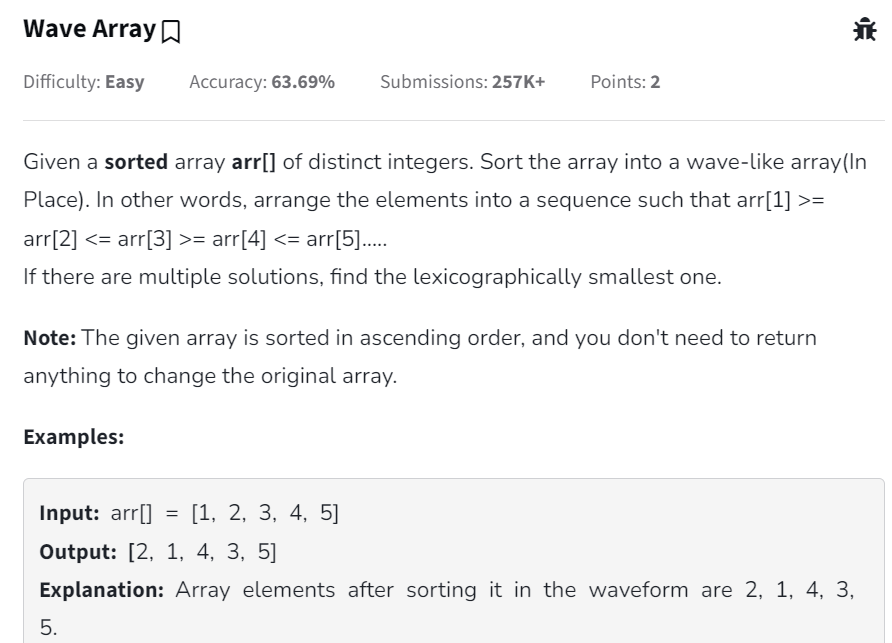
**OUTPUT**

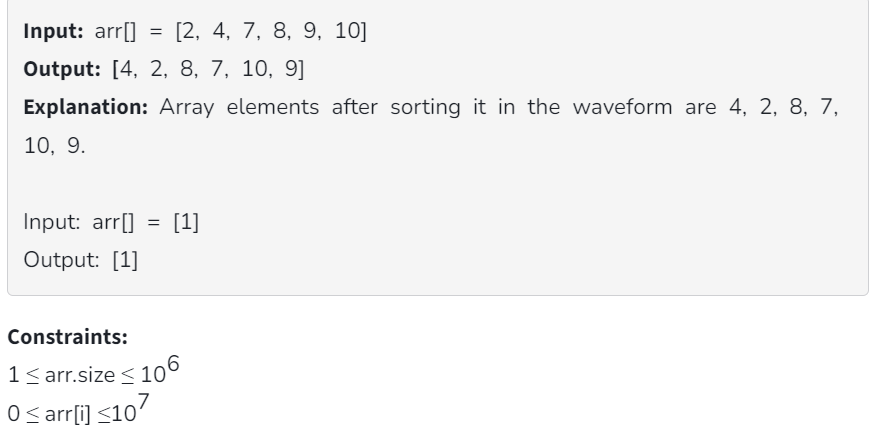
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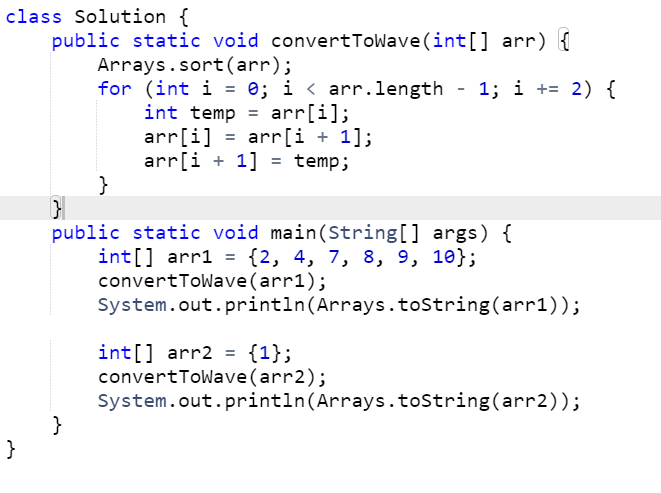
**TIME COMPLEXITY - O(N)**

**8)**

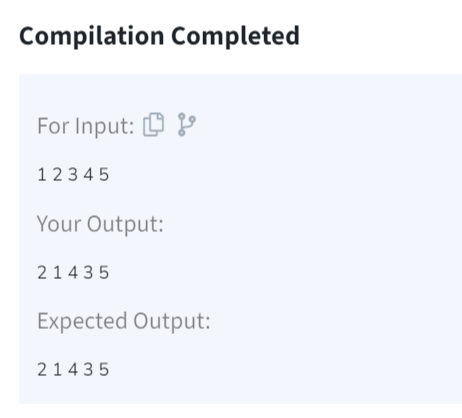
****

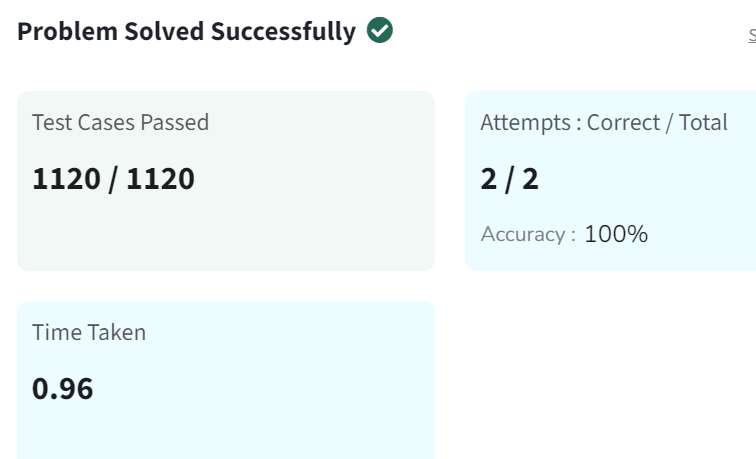
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**SOLUTION**

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**OUTPUT**

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**TIME COMPLEXITY - O(n log n)**