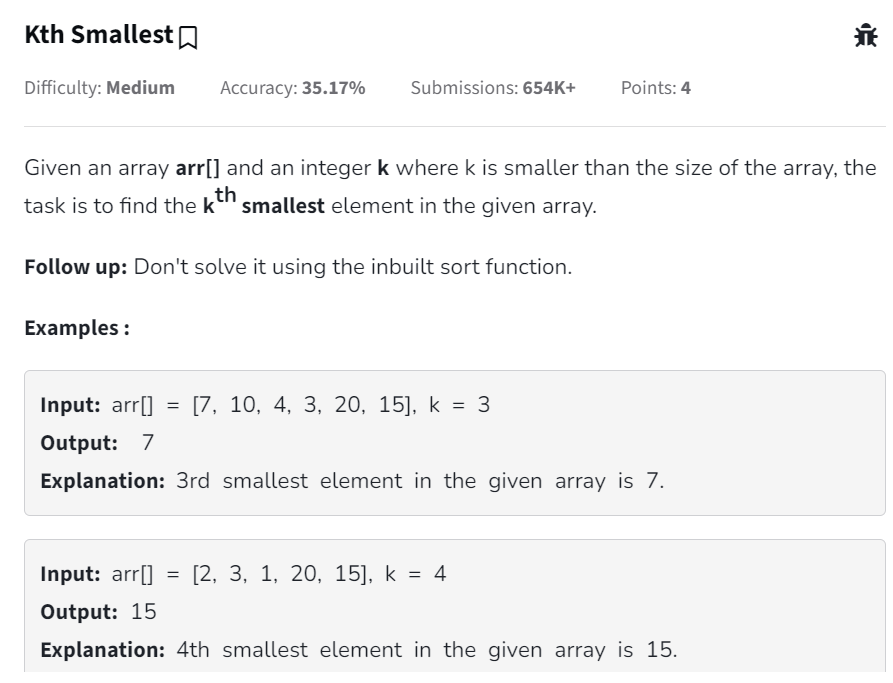
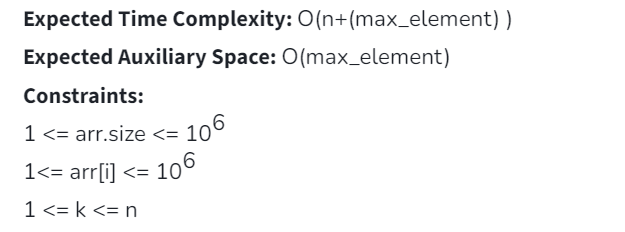
Pavadareni R 13-11-24

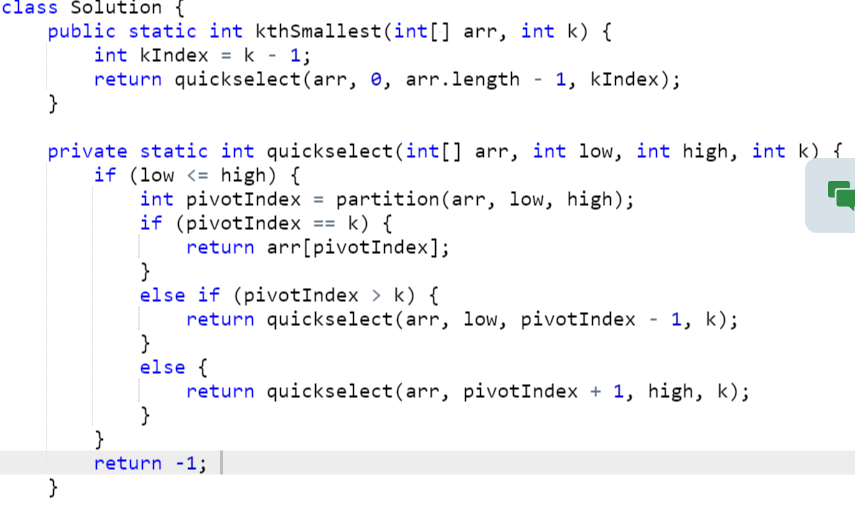
DSA Problems

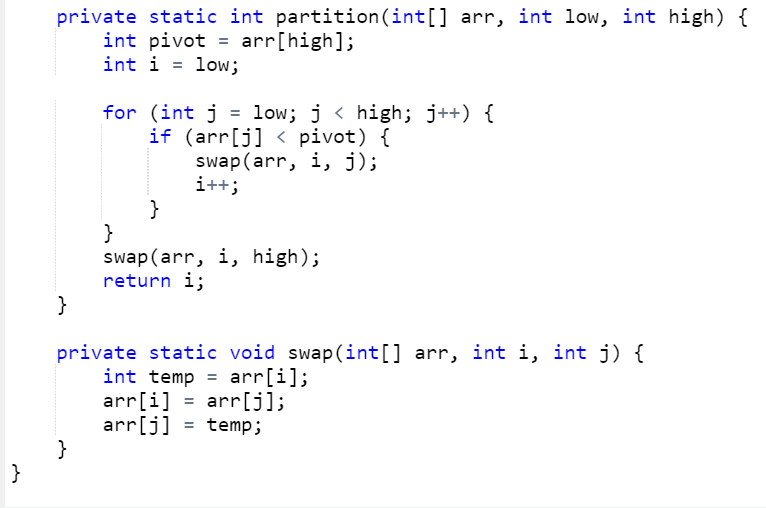
**1)**



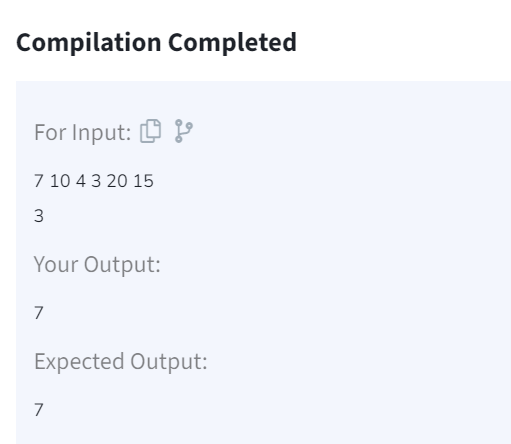


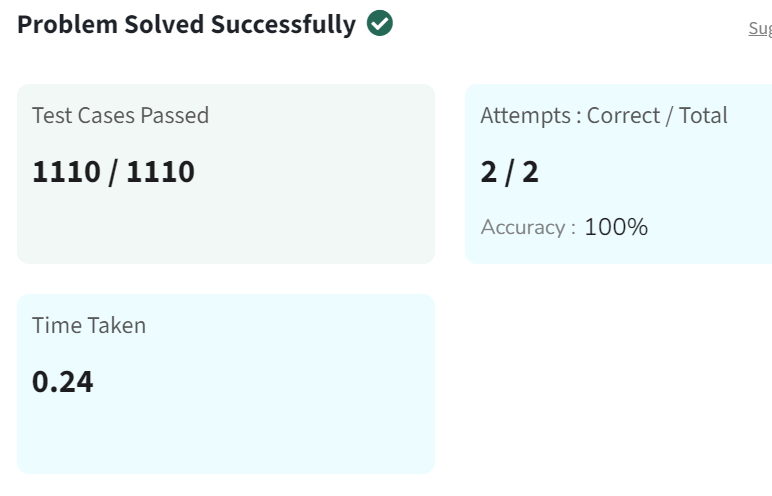
**SOLUTION**

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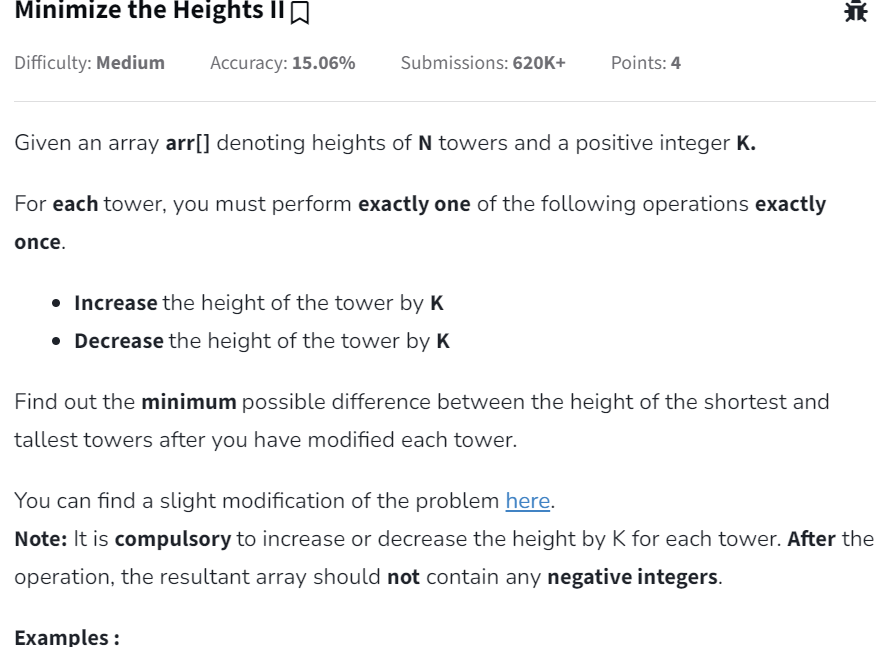
**OUTPUT**

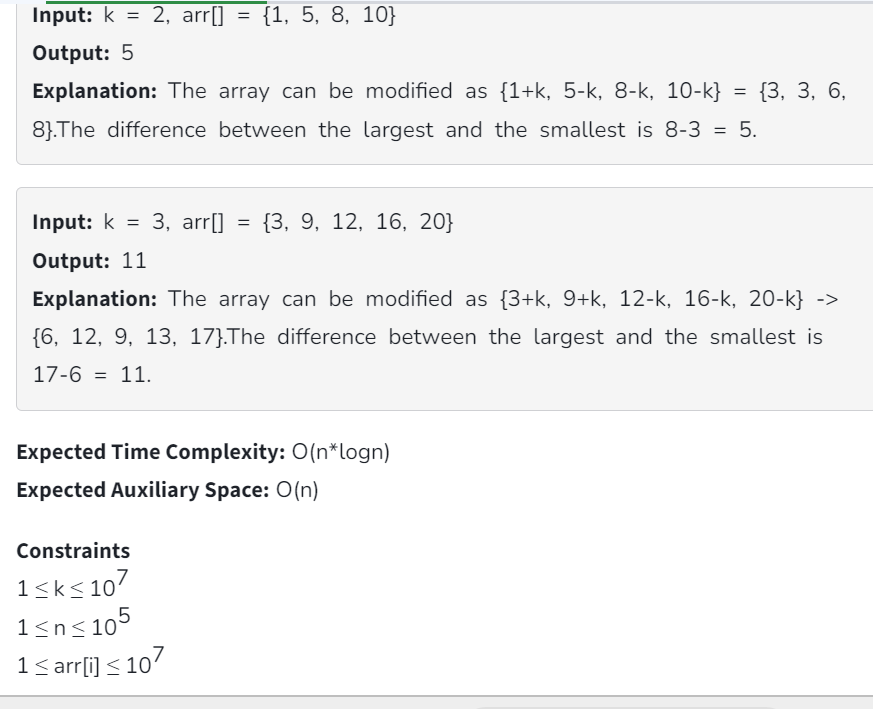
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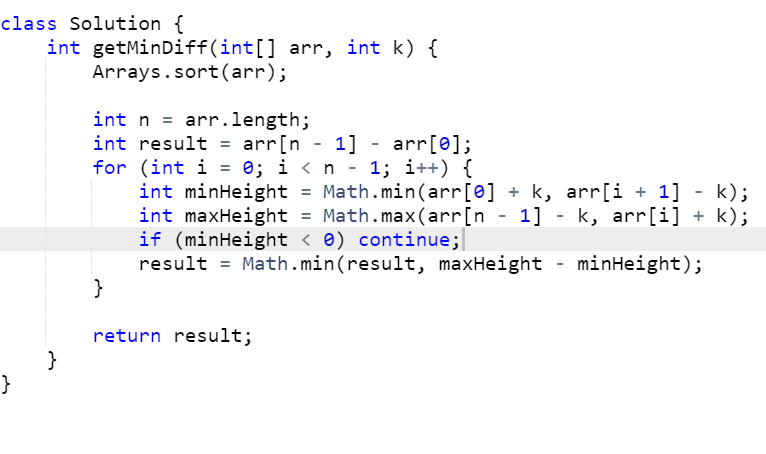
**TIME COMPLEXITY - O(n)**

**2)**

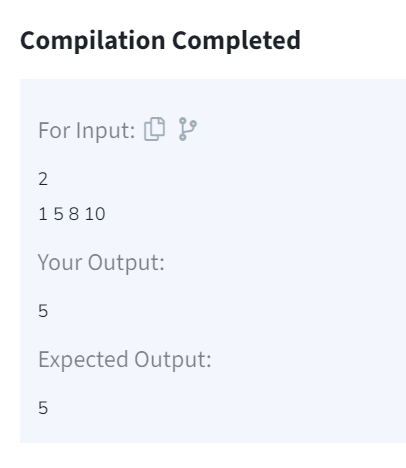
****

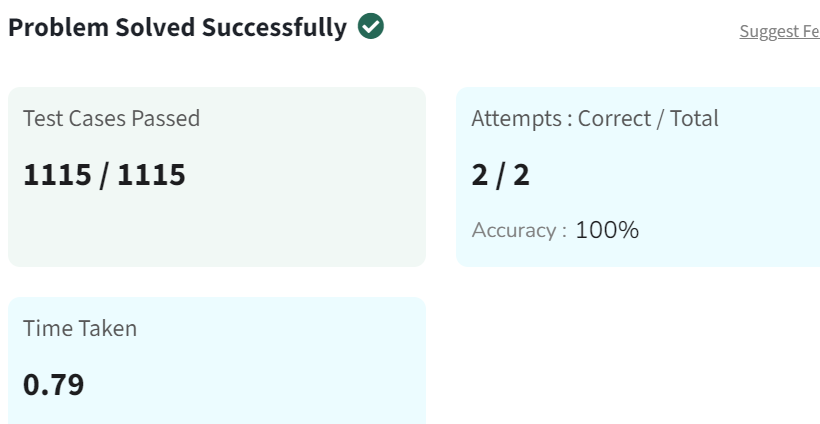
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**SOLUTION**

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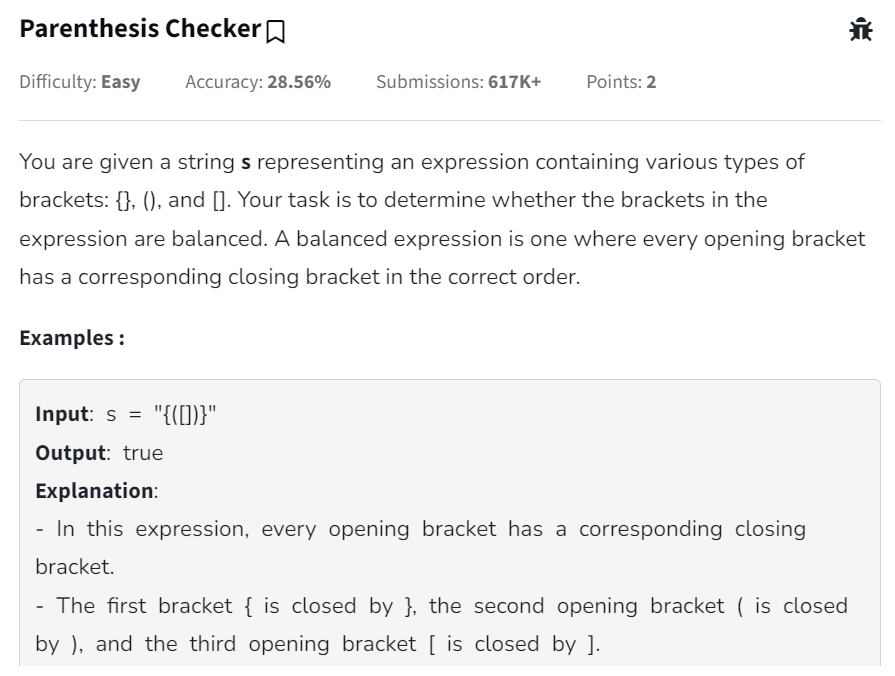
**OUTPUT**

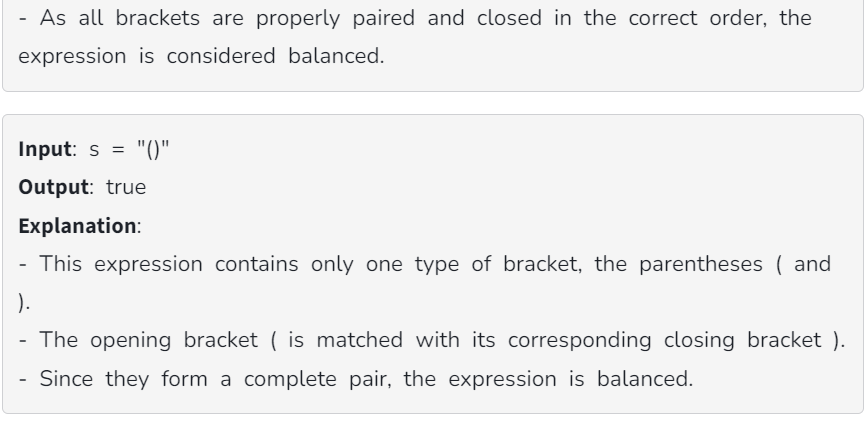
****

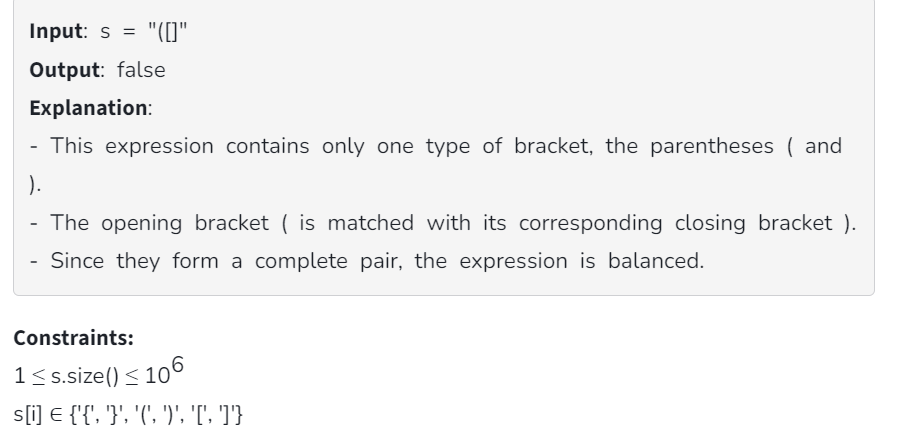
****

**TIME COMPLEXITY - O(nlogn)**

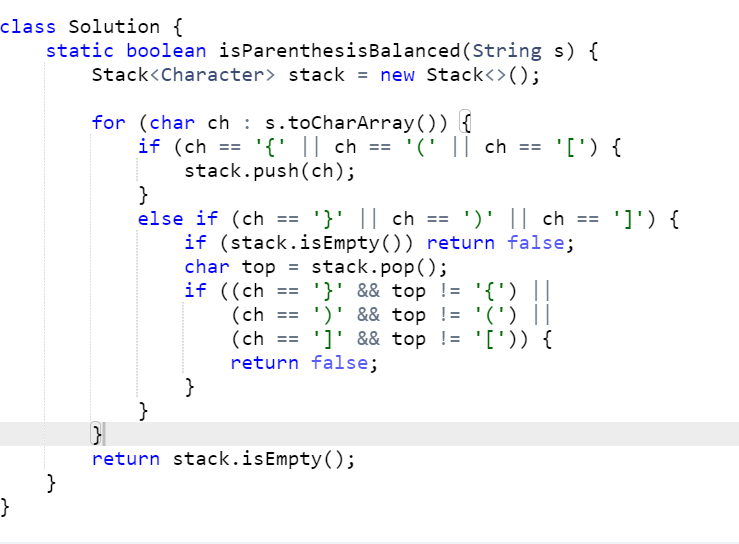
**3)**

****

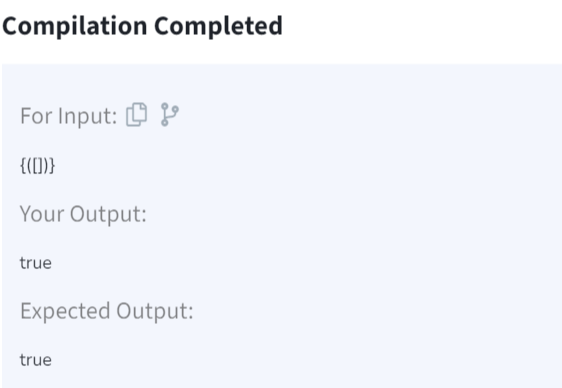
****

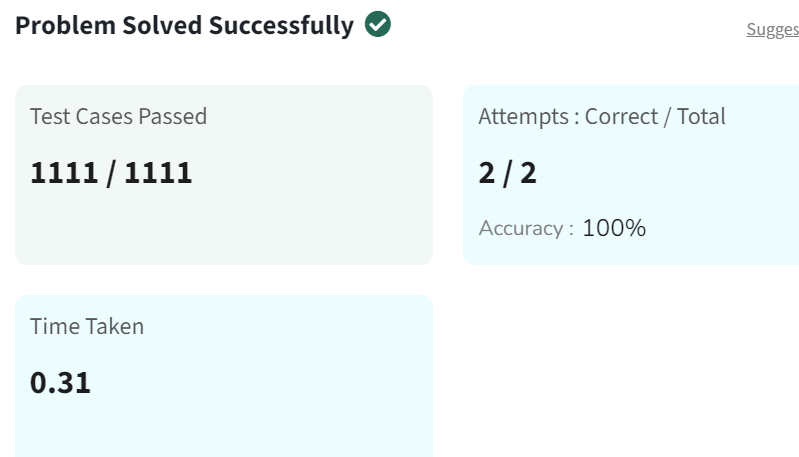
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**SOLUTION**

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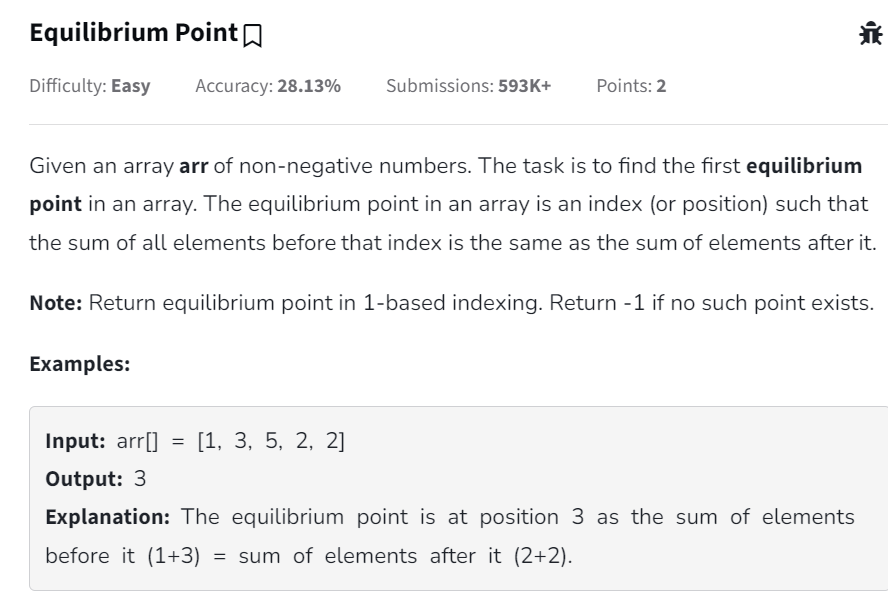
**OUTPUT**

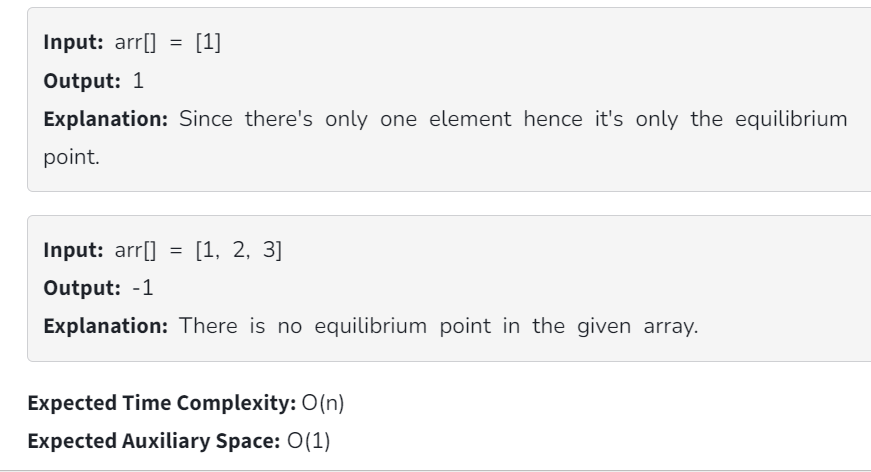
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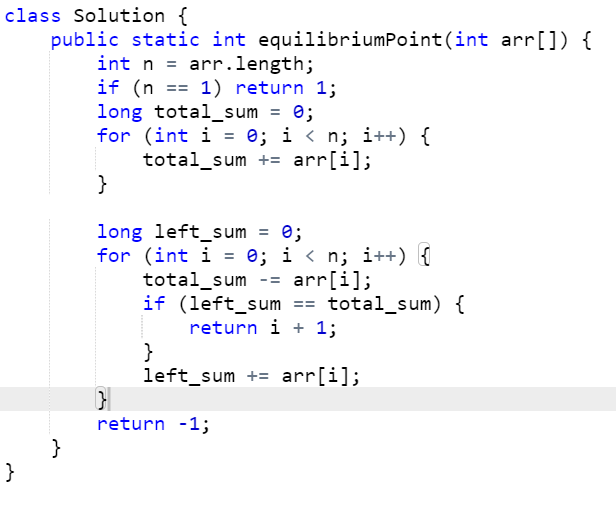
**TIME COMPLEXITY - O(n)**

**4)**

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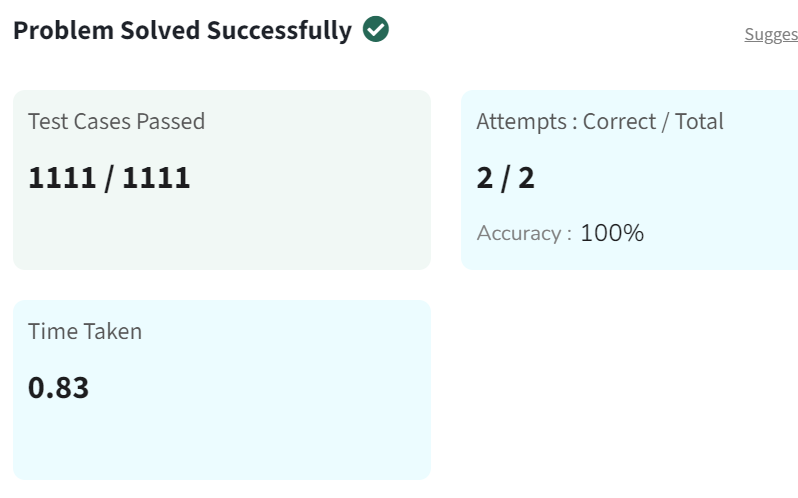
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**SOLUTION**

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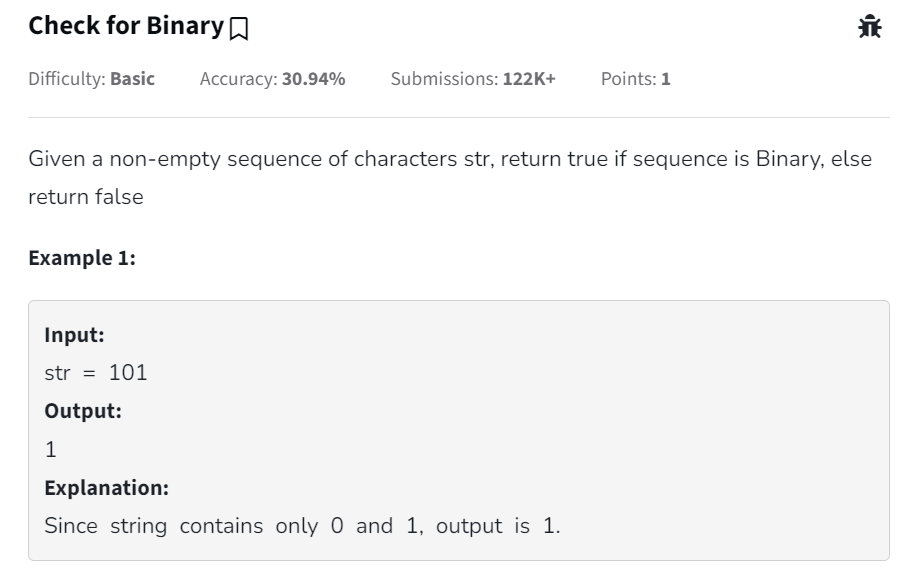
**OUTPUT**

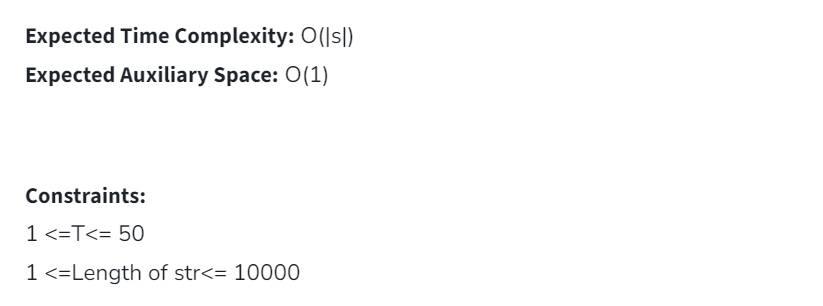
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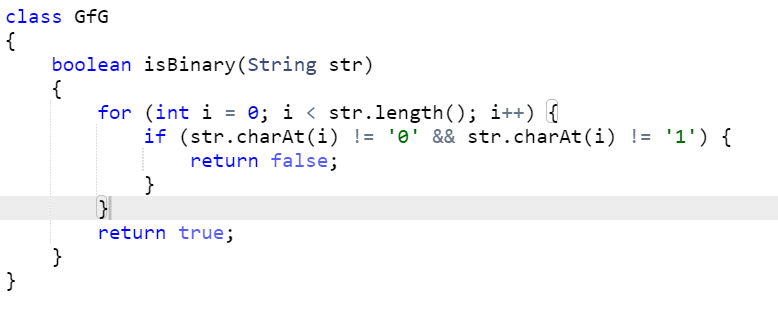
**TIME COMPLEXITY - O(n)**

**5)**

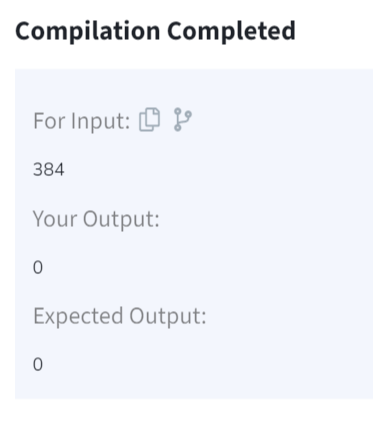
****

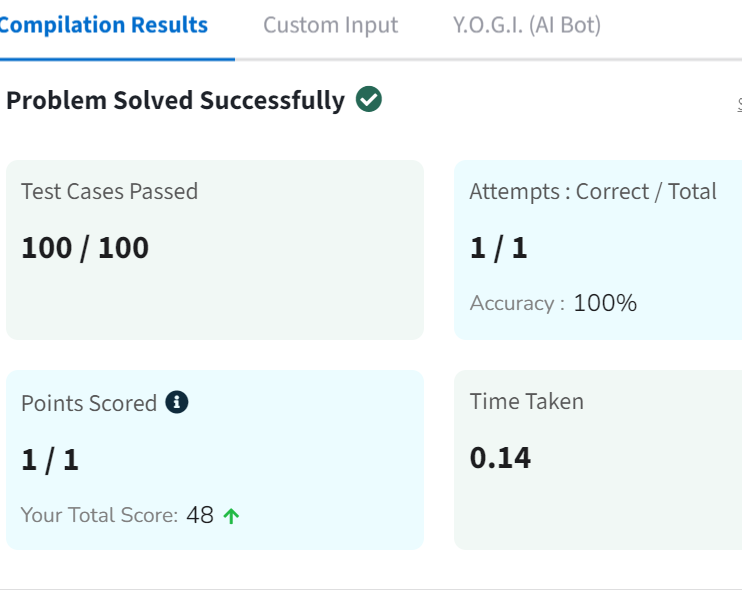
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**SOLUTION**

****

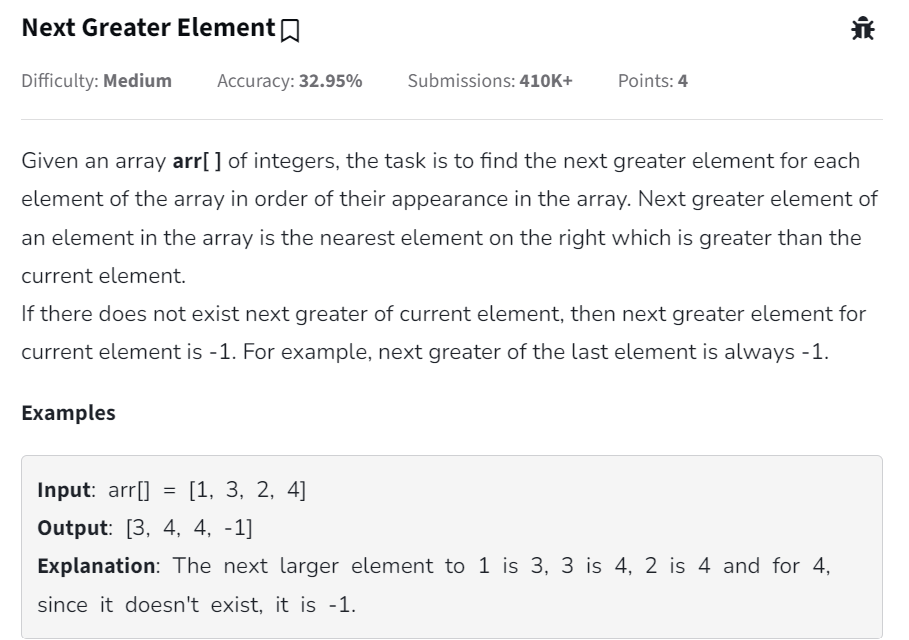
**OUTPUT**

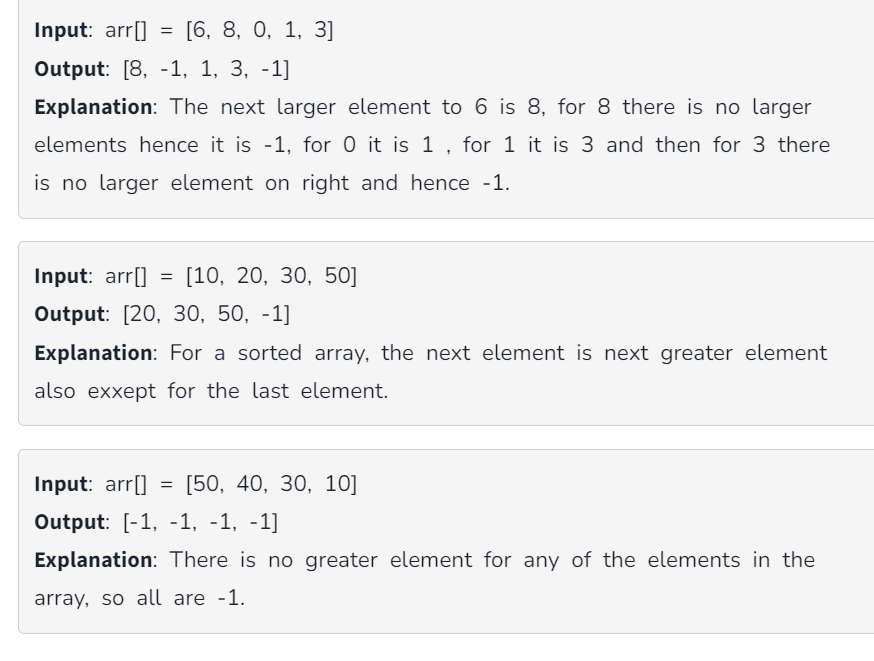
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**TEST CASE - O(n)**

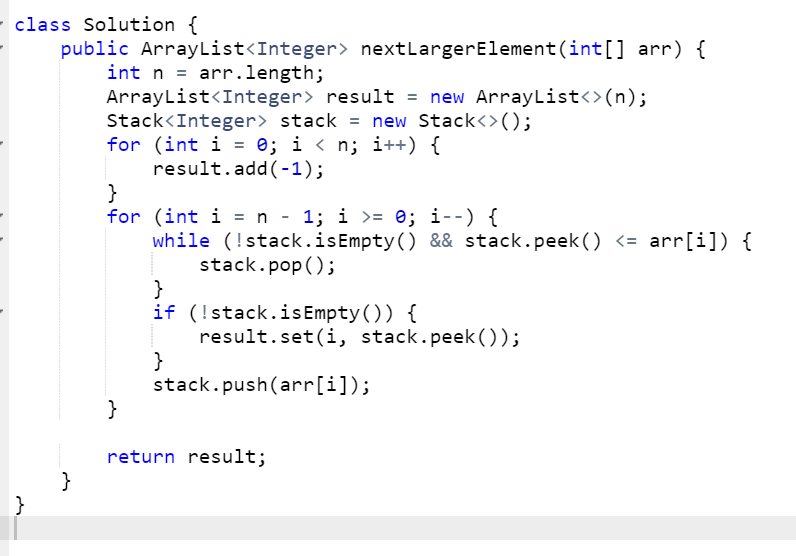
**6)**

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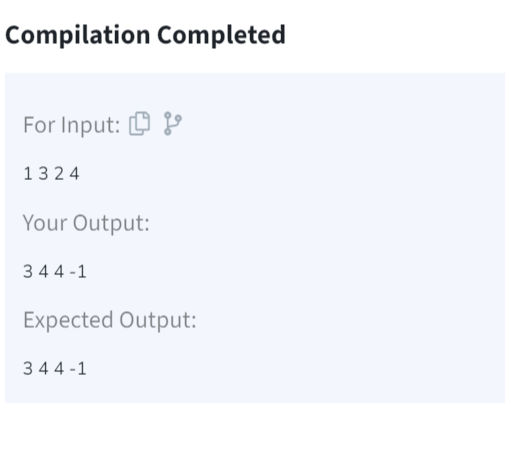
****

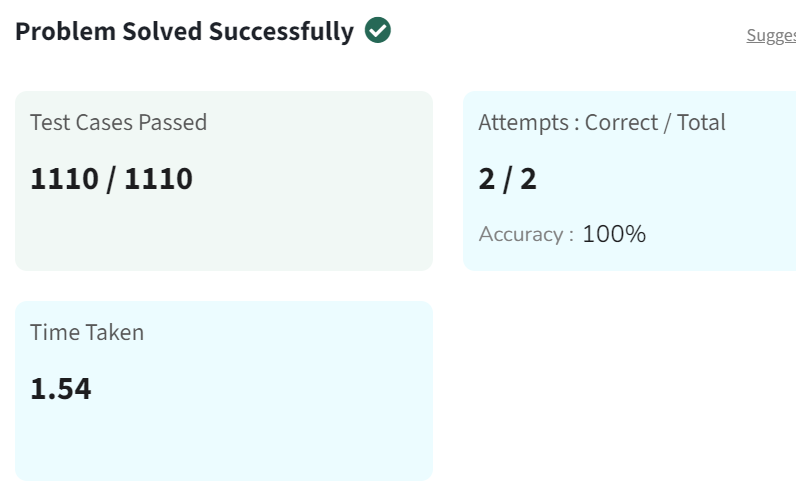
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**SOLUTION**

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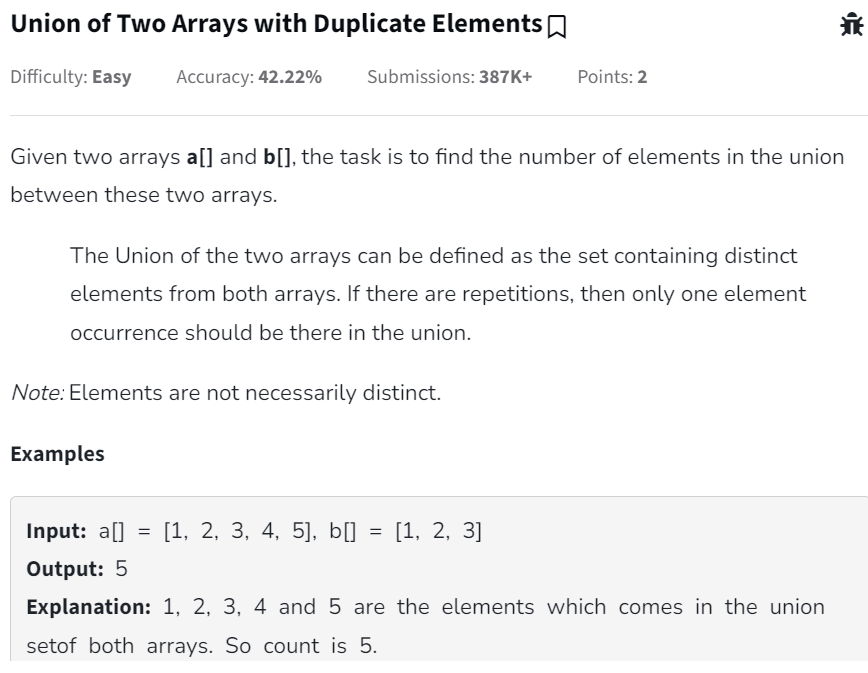
**OUTPUT**

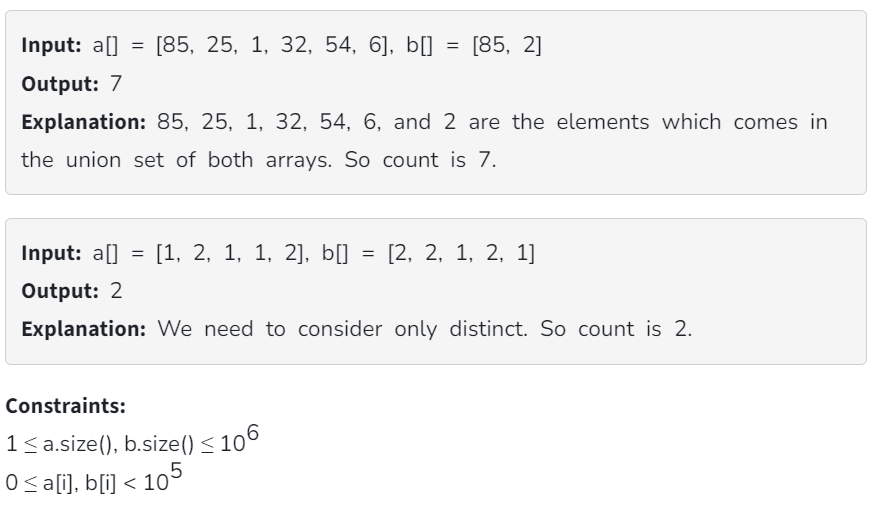
****

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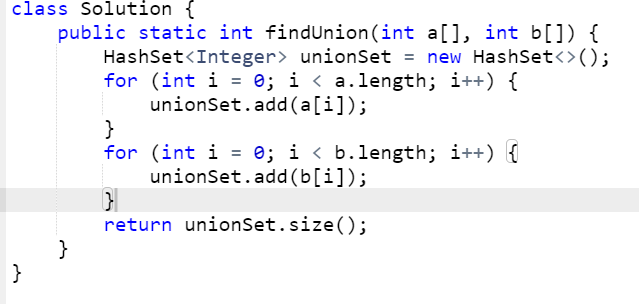
**TIME COMPLEXITY - O(n)**

**7)**

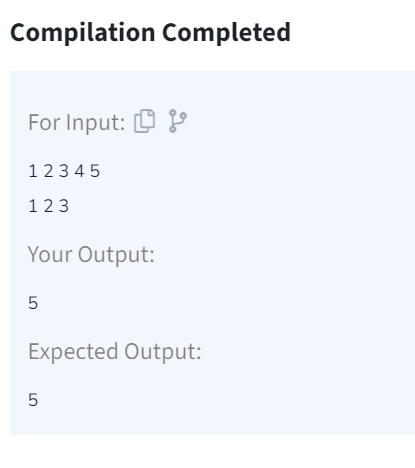
****

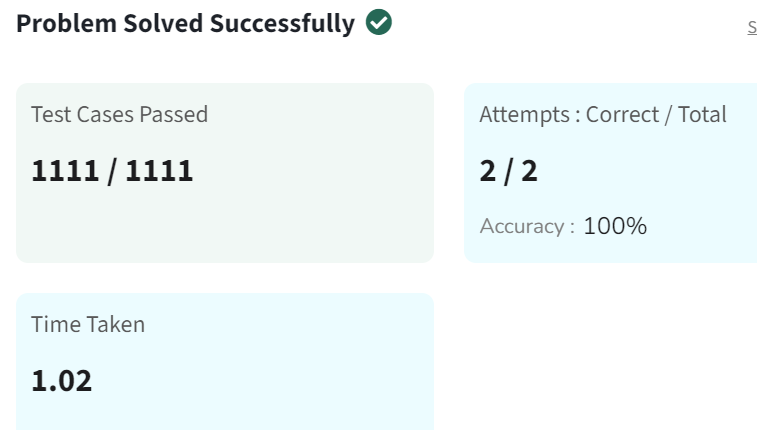
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**SOLUTION**

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**OUTPUT**

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**TIME COMPLEXITY - O(m+n)**