693. Binary Number with Alternating Bits

Solved

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Given a positive integer, check whether it has alternating bits: namely, if two adjacent bits will always have different values.

Example 1:

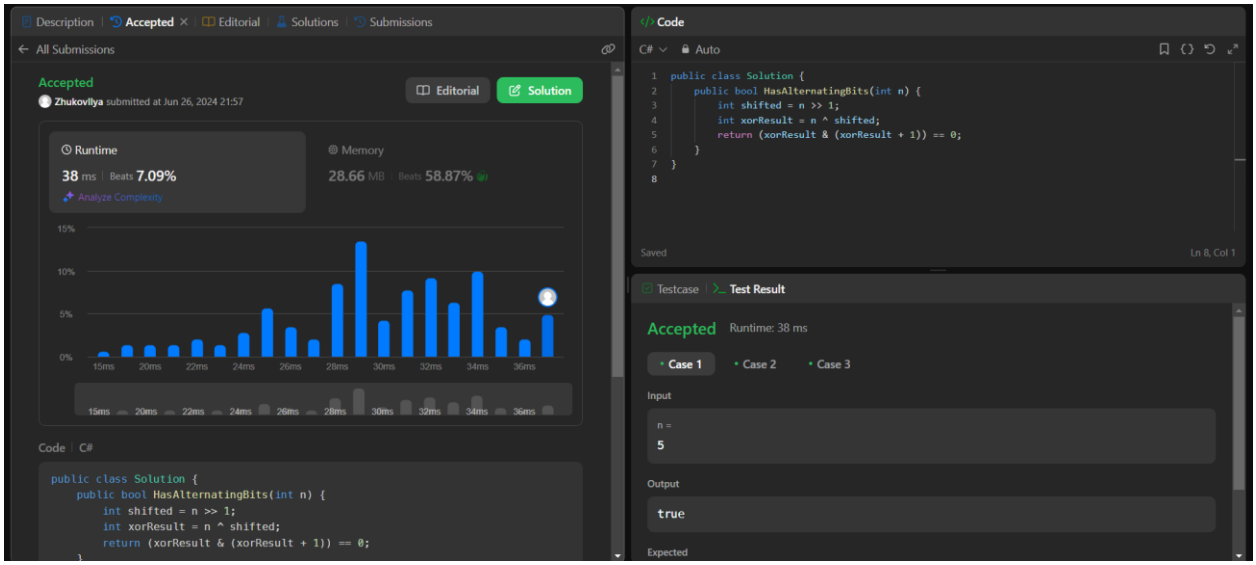
```
Input: n = 5
Output: true
Explanation: The binary representation of 5 is: 101
```

Example 2:

```
Input: n = 7
Output: false
Explanation: The binary representation of 7 is: 111.
```

Example 3:

```
Input: n = 11
Output: false
Explanation: The binary representation of 11 is: 1011.
```



Код:

```
public class Solution
{
    public bool HasAlternatingBits(int n)
    {
        int shifted = n >> 1;
        int xorResult = n ^ shifted;
        return (xorResult & (xorResult + 1)) == 0;
    }
}
```