Topics to discuss

Bit manipulation Problem - 12 Binary Numbers with Alternating Bits.



693. Binary Number with Alternating Bits



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.

```
class solution of

public boolean has Alternating Bits (int n) of

while (n > 0) of

if ((n & 1) = = ((n > > 1) & 1)) of

return false;

n = n > > 1;

return true;
```

$$n = 5$$
 $m = 101$
 $mile(1)$
 $(nx1) == (n271)x1$
 $1 == (101271)x1$
 $1 == 10x1$
 $1 == 0x$
 $1 = 0x$
 $1 = 0x$
 $1 = 10x1$
 $1 = 10x1$

Follow Now



Start Practicing



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