1h 25m
left

ALL

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7. Ad Rotation

An e-commerce site has a series of advertisements to display. Links to the ads are stored in a data structure and they are displayed or not based on the value at a bit position in a number. The sequence of ads being displayed at this time can be represented as a binary value, where 1 means the ad is displayed and 0 means it is hidden. The ads should rotate, so on the next page load, ads that are displayed now are hidden and vice versa.

Given a base 10 integer representing the current display state of all ads, determine its binary representation. Starting from the position of its highest order 1 bit, negate that bit and all lower order bits from 0 to 1 or from 1 to 0. Return the base 10 representation of the result.

C++

● Autocomplete Ready ⓘ

```cpp
 1    #include <bits/stdc++.h> ⋯
 9
10    /*
11     * Complete the 'changeAds' function below.
12     *
13     * The function is expected to return an INTEGER.
14     * The function accepts INTEGER base10 as parameter.
15     */
16
17    int changeAds(int base10) {
18
19    }
20
21    int main() ⋯
```