

:≡ Problems

< Prev | 1680/2417 | Next >

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Console → Contribute *i* 

```
i Java

   Autocomplete

                                                                   i {} 5 ⊕ □
       class Solution {
            public int concatenatedBinary( int n ) {
                long finalNumber = 0;
 6
                for (int i = 1; i <= n; i++) {
                    int numberOfDigits = 1 + log2(i);
                    long intermediateNumber = (finalNumber << numberOfDigits) %</pre>
 8
        1000000007;
 9
                    finalNumber = (intermediateNumber + i) % 1000000007;
10
11
12
                return (int) finalNumber;
13
14
15
16
            private int log2( int i ) {
17
                return (int) (Math.log10(i) / Math.log10(2));
18
19
Your previous code was restored from your local storage. Reset to default
```

☆ Premium

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▶ Run Code ^