Description

A **Bitset** is a data structure that compactly stores bits.

Implement the Bitset class:

- Bitset(int size) Initializes the Bitset with size bits, all of which are 0.
- void fix(int idx) Updates the value of the bit at the index idx to 1. If the value was already 1, no change occurs.
- void unfix(int idx) Updates the value of the bit at the index idx to 0. If the value was already 0, no change occurs.
- void flip() Flips the values of each bit in the Bitset. In other words, all bits with value 0 will now have value 1 and vice versa.
- boolean all() Checks if the value of each bit in the Bitset is 1. Returns true if it satisfies the condition, false otherwise.
- boolean one() Checks if there is at least one bit in the Bitset with value 1. Returns true if it satisfies the condition, false otherwise.
- int count() Returns the **total number** of bits in the Bitset which have value 1.
- String toString() Returns the current composition of the Bitset. Note that in the resultant string, the character at the [i th] index should coincide with the value at the [i th] bit of the Bitset.

Example 1:

```
Input
["Bitset", "fix", "fix", "flip", "all", "unfix", "flip", "one", "unfix", "count", "toString"]
[[5], [3], [1], [], [], [0], [], [], [0], [],
Output
[null, null, null, null, false, null, null, true, null, 2, "01010"]
Explanation
Bitset bs = new Bitset(5); // bitset = "00000".
bs.fix(3);
              // the value at idx = 3 is updated to 1, so bitset = "00010".
bs.fix(1);
              // the value at idx = 1 is updated to 1, so bitset = "01010".
bs.flip();
            // the value of each bit is flipped, so bitset = "10101".
bs.all();
              // return False, as not all values of the bitset are 1.
bs.unfix(0); // the value at idx = 0 is updated to 0, so bitset = "00101".
bs.flip();
             // the value of each bit is flipped, so bitset = "11010".
bs.one();
              // return True, as there is at least 1 index with value 1.
bs.unfix(0); // the value at idx = 0 is updated to 0, so bitset = "01010".
bs.count(); // return 2, as there are 2 bits with value 1.
bs.toString(); // return "01010", which is the composition of bitset.
```

Constraints:

- 1 <= size <= 10 ⁵
- 0 <= idx <= size 1
- At most 10⁵ calls will be made in total to fix, unfix, flip, all, one, count, and toString.
- At least one call will be made to all, one, count, or toString.
- At most 5 calls will be made to toString.