OR SUM

Given two arrays A[] and B[] of size N and M respectively. You have to find sum of bitwise OR of all pairs of A*B i.e. pairing every element of A[] with every element of B[], there will be exactly N*M pairs.

As answer can be large you have to find the answer modulo 10⁹ + 7.

Example 1:

```
Input:
N = 3
M = 2
A[] = \{5, 7, 1\}
B[] = \{2, 3\}
Output:
34
Explanation: All possible pairs and
their contribution to answer:
(5, 2) -> 7
(5, 3) -> 7
(7, 2) -> 7
(7, 3) -> 7
(1, 2) -> 3
(1, 3) -> 3
Answer = 7+7+7+7+3+3 = 34
```

Your Task:

You don't need to read input or print anything. Your task is to complete the function **orSum()** which takes size of first array **N**, first array **A[]**, size of second array **M** and second array **B[]** as input parameters and returns the answer - an integer.

Expected Time Complexity: O((N + M) * Log(max(integers in A[] and B[])))

Expected Auxiliary Space: O(1)

Constraints:

```
1 \le N, M \le 2*10^5

0 \le A[i], B[i] \le 2^{30}
```