Editorial:

We can solve this problem using trie data structure. At each node of the trie we will store the ith bit of the number for query of type 0. To solve the query of type 1 we will store the indexes of the number that pass through that node. When we go down the tree during a query and maximising the xor, we go in a direction that contains at least one index in range **L** to **R**, otherwise we go in the other direction. To search if atleast one index is within the stored indexes we will use binary search.