**Problem – 6 :** You are given an array/list 'ARR' consisting of 'N' non-negative integers. You are also given a list 'QUERIES' consisting of 'M' queries, where the 'i-th' query is a list/array of two non-negative integers 'Xi', 'Ai', i.e 'QUERIES[i]' = ['Xi', 'Ai']. The answer to the ith query, i.e 'QUERIES[i]' is the maximum bitwise xor value of 'Xi' with any integer less than or equal to 'Ai' in 'ARR'. You should return an array/list consisting of 'N' integers where the 'i-th' integer is the answer of 'QUERIES[i]'.

```
def max_bitwise_xor(N, ARR, M, QUERIES):
    result = []
    for query in QUERIES:
        Xi, Ai = query
        max_xor = -1
        for num in ARR:
            if num <= Ai:
                max_xor = max(max_xor, Xi ^ num)
        result.append(max_xor)
    return result
N1 = 5
ARR1 = [0, 1, 2, 3, 4]
M1 = 2
QUERIES1 = [[1, 3], [5, 6]]
print(max_bitwise_xor(N1, ARR1, M1, QUERIES1))
```