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Ex1:
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O(max(1,n/m))
O(min(log(m),log(n)))
O(max(log(m),log(n)))
O(n^2 + nlogn) or O(n^2)
O( (n+4*m)*logn)
O( sqrt(n) )
```

Ex2:

Case 1: expected algorithm's complexity is O(n*q)

Case 2: expected algorithm's complexity is O(n+q)