

Cairo university faculty of engineering computer department
Algorithms semester fall 2018 homework 3

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PROBLEM	TIME COMPLEXITY	STACK COMPLEXITY	HEAP COMPLEXITY
1	$O(N+M)$	$O(1)$	$O(H1+H2)$
2	$O(N)$	$O(H1)$	$O(N)$
3	$O(N*N)$	$O(1)$	$O(N)$
4	$O(N*N)$	$O(N)$	$O(N*N)$
5	$O(N*N)$	$O(1)$	$O(1)$

- Mention extra Heap needed (not include input data)
- No mention for time/space for input (ex: array that contain original data)