Q1 Given a number N, write a pseudo code of backtracking algorithm to count the number of ways to express N as sum of 1, 3 and 4.
Examples:

```
Input  :   N = 4
Output : 4
Explanation: 1+1+1+1
             1+3
             3+1
             4
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Input : N = 5
Output : 6
Explanation: 1 + 1 + 1 + 1 + 1
             1 + 4
             4 + 1
             1 + 1 + 3
             1 + 3 + 1
             3 + 1 + 1
```

Q2 Write the pseudo code of dynamic programming (both top-down and bottom-up approaches) for the problem in Q1.

Q3 What is the complexity for the algorithms in Q1 and Q2?