**Solve the following problems**

1. Implement the DP algorithm to find the Longest Common Subsequence
2. On a positive integer, you can perform any one of the following 3 steps.
   1. Subtract 1 from it. ( n = n - 1 ) .
   2. If its divisible by 2, divide by 2. ( if n % 2 == 0 , then n = n / 2  ) .
   3. If its divisible by 3, divide by 3. ( if n % 3 == 0 , then n = n / 3  ).

Now the question is, given a positive integer *n*, find the minimum number of steps that takes *n* to 1.

1. <https://www.codechef.com/problems/D2/>
2. <https://community.topcoder.com/stat?c=problem_statement&pm=1259>
3. Given coins of different denominations and a Cost, make change using minimum number of coins for the cost.

For example,

Input

Coins = {1, 2, 3}, Cost= 5

Output

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