Longest Repeating Subsequence

(i) sharing of chars is not allowed.

(ii) Lcs

51-) a eak b m b

$$ij(ch(i) = = ch(j) & i! = j)$$

$$dp(i)Lj) = 1 + dp(i+1) [j+1);$$

$$g$$

$$clsc [
dp[i)[j] = max(dp[i)[j+1], dp[i+1)[j])$$

Arithmetic Slices 1 count of subarrays forming an AP of atleast 3 dength. 0(n) 4 8 12 16 20 19 22 26 ans: 0

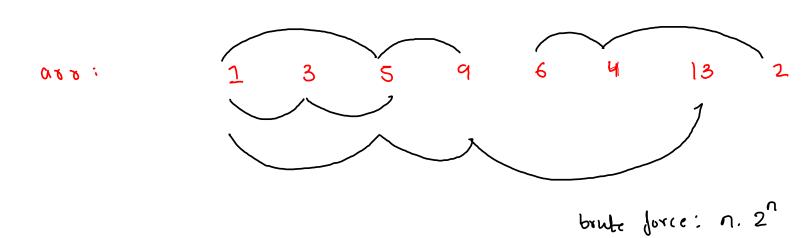
arr ay

sum of

dp[i] -> round of subanness ending at i which Jus ms an ap of Les 23

Arithmetic Slices II - Subsequence

Count all subseq of number forming an ap



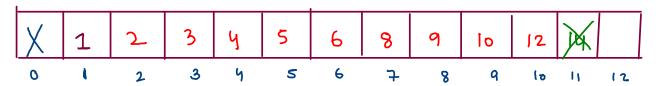
optimised appro

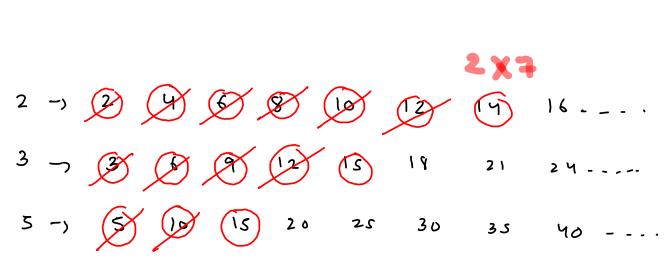
Ч	2.	3	5	2	6	7	9	8
X	-2->1 (4,2)	1-1 (2,3)	2-1(3,5) 3-1(2,5) 1-1(4,5)	$\begin{array}{c} -3 - > 1 & (5,2) \\ -1 - > 2 & (4,3,2) \\ 3/2 & \\ 0 - > 1 & (2,2) \\ -2 - > 1 & (4,2) \end{array}$	4-72 (2,6) 1-72 (4,5,6) 3-1 (3,6) 2-1 (4,6)	1-)3 (4,5,6,7 5,6,7 6,7) 5-1 (2,7) 2-2 (3,5,7 5,7)		
Cd vs Cyp's cot					1 (3,5,2)	3-1 (4,2)		

264. Ugly Number II

An **ugly number** is a positive integer whose prime factors are limited to 2, 3, and 5.







15/16 (o) 2 + dp[2p] 3 × dp (3p)
5 * dp [sp)

15/16

```
P2
                                                                                             P3
for(int i=2; i <= n;i++) {</pre>
   int c2 = 2 * dp[p2];
                                                                                      5
                                                                                                                   10
                                                                                                                        12
   int c3 = 3 * dp[p3];
   int c5 = 5 * dp[p5];
                                                                                                                         10 11 12
   int un = Math.min(Math.min(c2,c3),c5);
                                              6
                                                                     3
                                                                               4
                                                                                                    7
                                                            2
                                                                                       S
                                                                                                             8
                                                                                                                   9
   dp[i] = un;
   if(un == c2) {
                                                                             PS
       p2++;
   if(un == c3) {
       p3++;
   if(un == c5) {
       p5++;
```