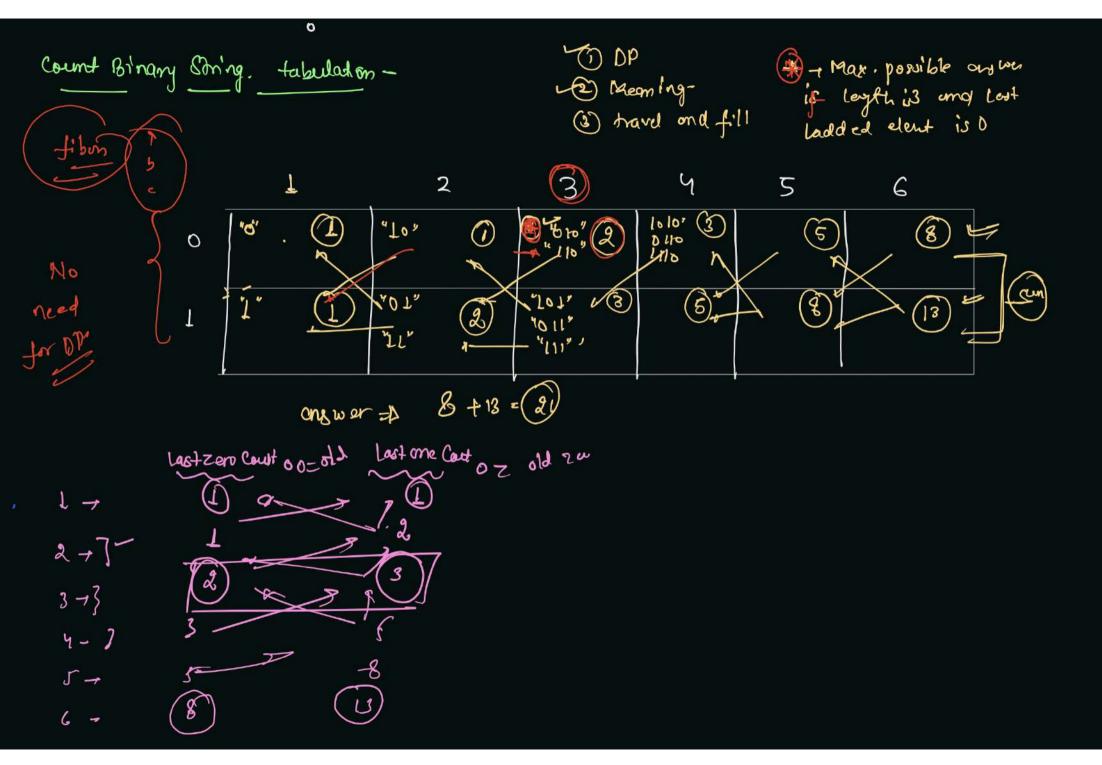
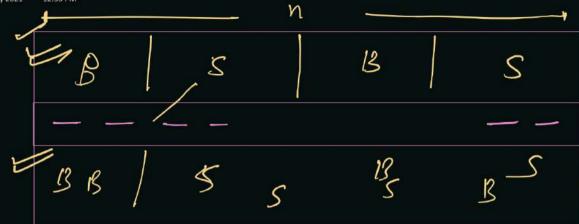
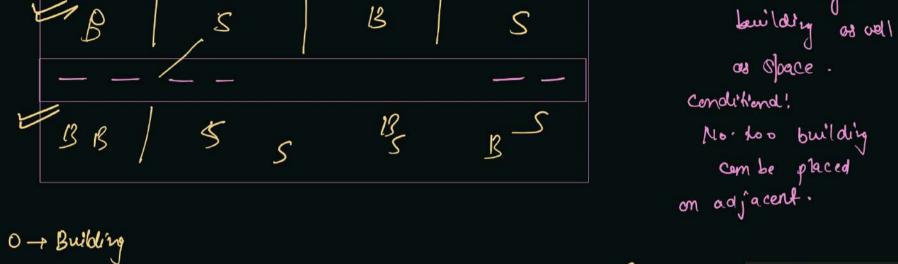


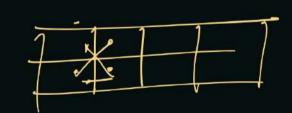
```
public static int countBinaryStrings_memo(int clen, int n, int le, String str, int □ dp) {
    if(clen = n) {
        return dp[le][clen] = 1;
    if(dp[le][clen] != 0) {
        return dp[le][clen];
   int count = 0;
    System.out.println(clen + " " + le);
   if(le == 0) {
        count += countBinaryStrings_memo(clen + 1, n, 1, str + "1", dp);
   } else {
       count += countBinaryStrings_memo(clen + 1, n, 0, str + "0", dp);
        count += countBinaryStrings_memo(clen + 1, n, 1, str + "1", dp);
    return dp[le][clen] = count;
public static void countBinaryString() {
   int n = 6;
    // int count = countBinaryStrings_rec(1, n, 0, "0");
    // count += countBinaryStrings_rec(1, n, 1, "1");
   int[][] dp = new int[2][n + 1];
    int count = countBinaryStrings_memo(1, n, 0, "0", dp);
   count += countBinaryStrings_memo(1, n, 1, "1", dp);
                    Set and
    System.out.println(count);
```



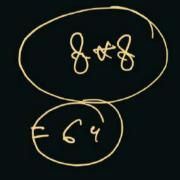


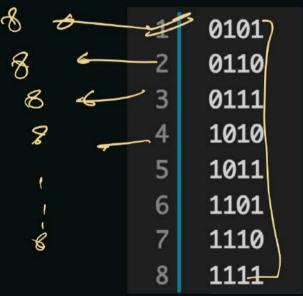






1-> space





total no of ways

to arrange

