

s.c= 0(1 Ising for loop fibonnacci T.C = OCM) int max Numbe = 10. for ( int i=13 i = max Number ; i=1) S. O. p. (premoumo. +" "); Pat Sum = prevocesno + nextho. pruoumo = next No. next No. = sun .; Print the Namber in words T.C = O(n) 5.C = O(n) Que. Sortedox Unsorted Scrafed unsord. S.C: O(N) 7.c: 0 cm) T.C: O(N). S.c:00m) Ques. Subset using Bitmasking Pscudocode Void outsets (= int an [], int n) i'nt subset-size = pow(21m) ind index, i. for ( index from 0 to subset \_ size) S int subsettail for ( i from O to n) S 19 (index & icci)) Subset [i] = asor[i]

```
forint (subut)
                         T.C =0 ( N * 2 1 n)
                         M. ( => O(n)
Total coay to neach nth star from botton
                              [ because 3 recursive function
               T.C ⇒ O(3n)
                S.C => O(1) > No sepace are require.
           s.c > o(n)
               Optimized Wing Dynamic Programming
 Perm whation
           T.C. 0 (n * n!)
            3.C 10 (m)
 Source to Destination [ backtracking is negwired because
                                 we want previous scent)
  Pseudo code
        Let destion P', 9.
       bet origin n, & y
        let m is now n is column.
1/ To move right.
     Ff ( Mone ( x+1, y, m, n) {
          output.push.back ('R');
          point ( m, n, x+1, y, p, q, output);
          output. pop_back ();
1/ To move Up.
        of ( move, n, y+1, m, n) d
         output.push - back ('V');
         print (m, n, y+1, p, q, output).
          subput pop - back ();
```