N = 30000NR JN = 200 9=2×105×200=4×107 Mo's algorithm

Fractional Knapsack 0-1 Knapsack / T = 8 sec R, = (100, 7 sec) = 14:28 $\hat{R}_2 = (50, 4 \text{ Sec}) = 12.5$ R3 = (55, 4 sec) = 13.75 f(isk) = a; - (k-1) b; $b_{i} = 1$ $K = \sqrt{9} = 30$ 30 X 100 = 3,000, x 25,000 = 75 X106 + No. of item = 7.5X107 6-1 Knapsack (W.N) dp[20][t]

Ride i dp[i][t]

Ap[19]

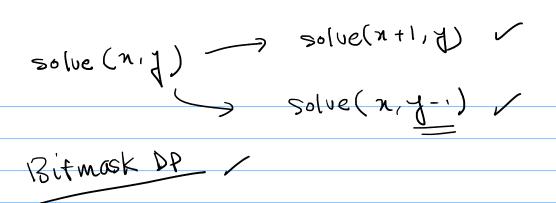
Ride vot a

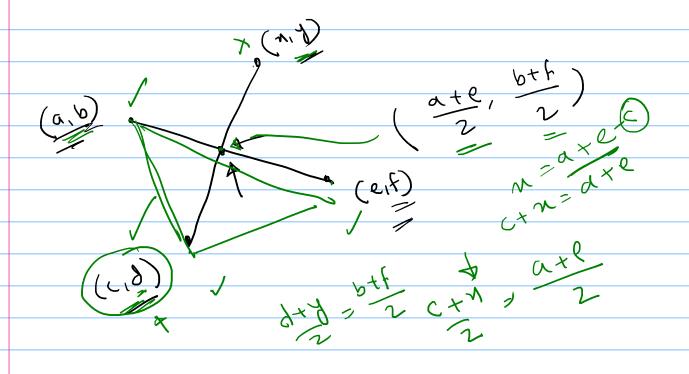
Pide vot a

Ap[i][t]

Ap[i-i][t-ti]

```
vector <int> dp[3005]
-> for (int i=1', i<=3004) i++) {
   > 11 dp[i] = vector(int) (25001,0);
   => 11 dp[i-2]. clear() // 25000
         for (int y=1) / 25000; /tt) {
              4-[1][7] =
    solve (int x, int y) > solve (x-1, y);
         cout << solve (1000, 1000) «end)
= 14 qb[x][4] i=-1:
 50/ve(2,2)
50/ve(1,2) solve(2,1)
                              so(ve(0,0)
  For (n=0; n<1000; n++)
                              50/ve(1,1)
for (y=0; o <1000; y++)
                             solve (0,1) solve
         Solve (N, y)
                                      (1,0)
  cout <<
```





All submask of a mask
$$\rightarrow 3^{N}$$

N

N

S = (-s)8

 $x = c_n + \frac{1}{2}(d_n - c_n) + parametric$ $n_2 = a_n + t(b_n - a_n)$ $\frac{-x-a_{x}}{dz} = a_{y} + \epsilon \left(b_{y} - a_{y} \right)$ $\left(\frac{d}{dz} - \frac{dz}{dz} \right)^{2}$ $= \underbrace{\left(\left(x - a_{N}\right) + t\left(d_{N} - c_{N} - b_{N} + a_{N}\right)\right)}_{q}$ $= \frac{\left(p + qt\right)^{2} + \left(m + nt\right)^{2}}{\left(p + qt\right)^{2} + \left(m + nt\right)^{2}}$ $= p^{2}tm^{2} + t\left(2pq + 2mn\right) + t^{2}\left(q^{2}+n^{2}\right)$ rpz+Zmn + Zt (gz+nt)

