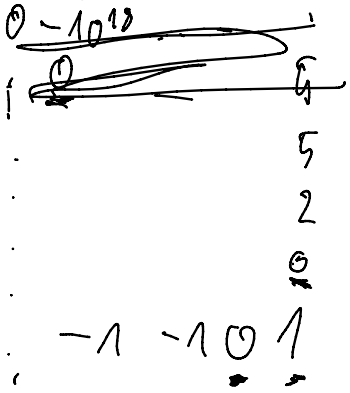
K18 - contest

Friday, 11 March 2022 18:54



0 cur

1 prev

i&1 cur

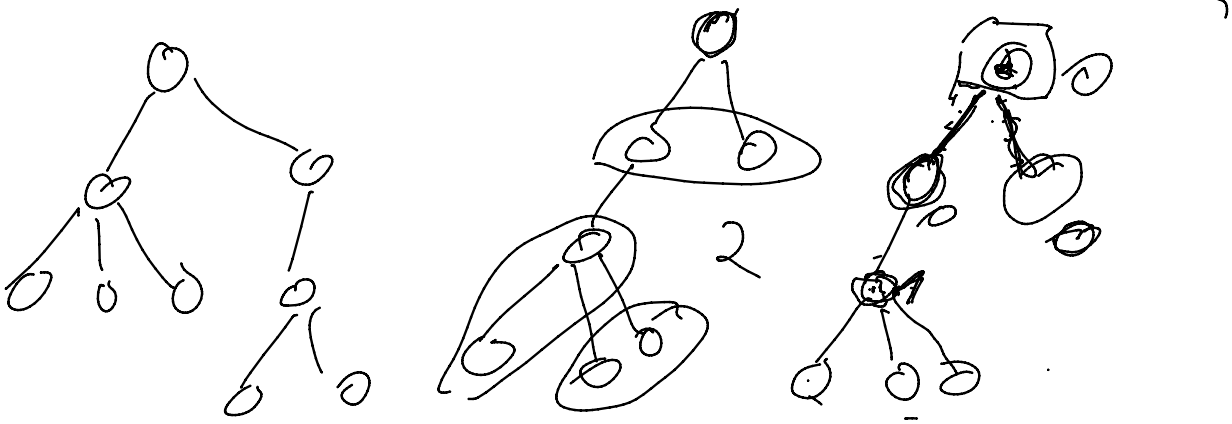
i&1^1 prev

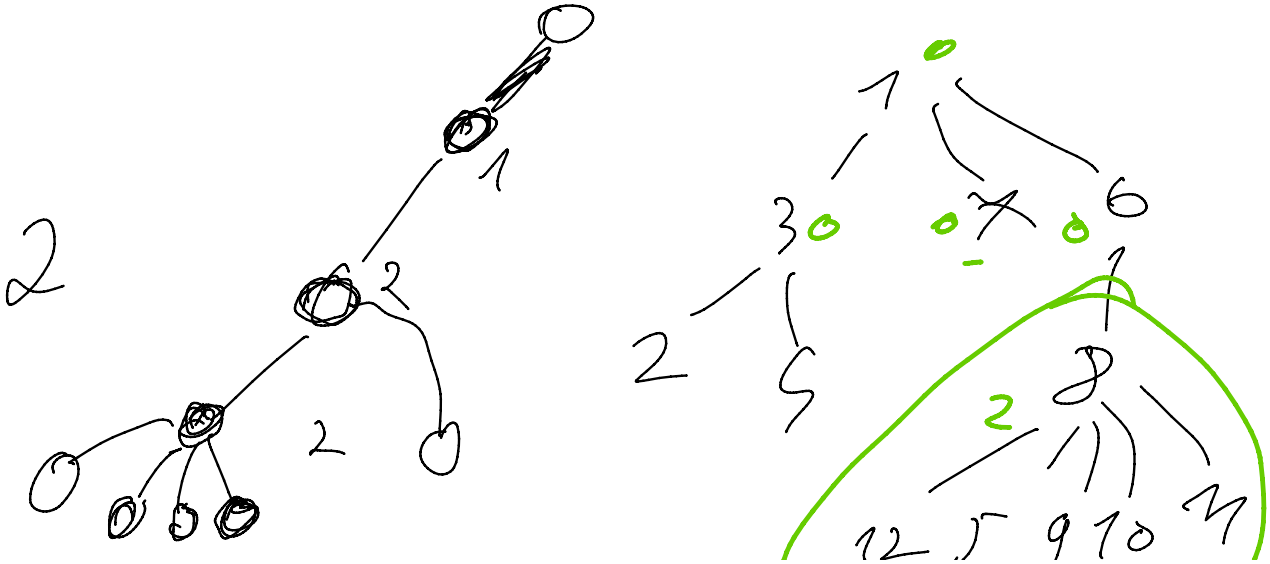
i%2

(i+1)%2

$dp[i\&1][j] = \max(dp[i\&1\wedge 1][j], dp[i\&1][j-1]) + x_j$

$dp[n\&1][m]$





$dp[n][k=a][sum]$ $dp[2][4][sum]$

do której karty rozważamy — ilości wziętych kart — suma $0-200^{12}$

for $k \in \langle 1, n \rangle$

$res += dp[n][k][k * A]$

n n^2 n^2

for $i=0$ $i<n$ $++i$

for $k=0$ $k<=i$ $++k$

for $s=0$ $s<MS$ $++s$

$dp[i][k][s] += dp[i-1][k-1][s+tab[i]]$

% MOD

$A = \frac{\sum_{i=1}^{n} x_i}{n}$ $O(n^4)$

$nA = \sum_{i=1}^{n} x_i$

$0 = x_1 - A + x_2 - A + .. + x_n - A$

$dp[n-1][MS]$

n n^2

for $i=0$ $i<n$ $++i$

for $s=0$ $s<2MS$ $++s$

$dp[i][s] += dp[i-1][s-(tab[i]-A)]$;

% MOD

$O(n^3)$