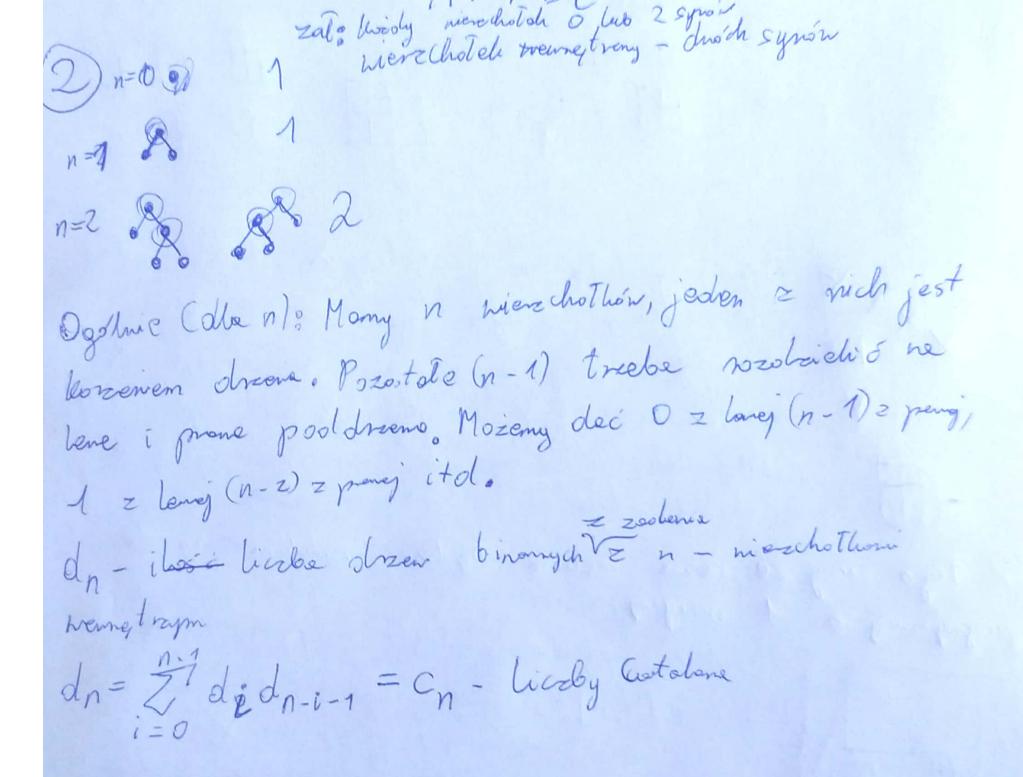
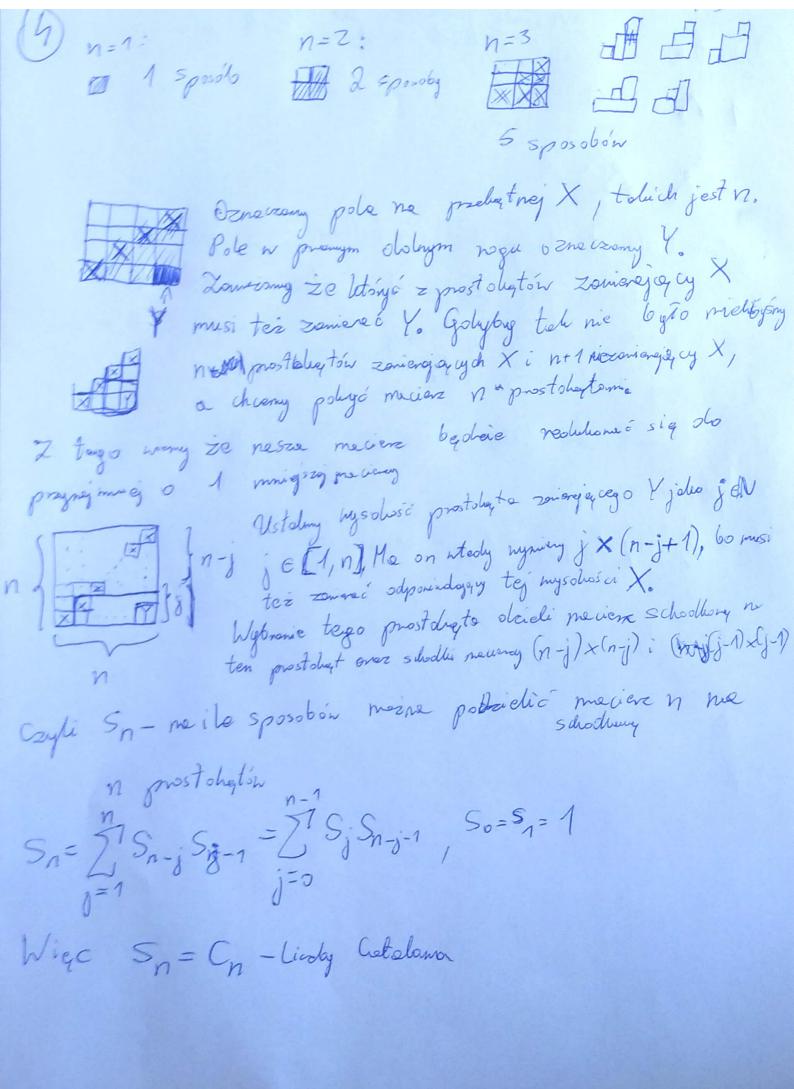
13 Wybicsony producting the product w Ph+2 2 Many (n-1) meilines à (opposer 4, 1 n+2) mayo) Zansony, že nybrane taliej produgtnej obsieli nesz (n+2)-hegt ne le-legt i (n+2)-h+1=(n+1/2-h) (° (n+2) +2-1= 4+(n+3)-h), confi zgodna się liesba boliow obse bolio z probytnoj Licayony to mysice to-besty i (n+3-6)-buyty rebuencyjnie drught = d20/n+1+d30/n+ + d/n+1 d2 droto= 4 (myber figury tollo z jedy stary meszych prochatnych)



n = 0: n = 2: n = 2: 0_ _ - 0 toposób & sposoby C3=C2C0+C1C1+C0C2=5 Ogóline: Many 2n osób Wybieramy olomolne osobe. Monzamy je potegozed z A osobami, ollotego, že aby bezole osoba ujhonota risasli to po potagizeniu po obu stronach prostej musi być pozysta liczba ludzi. Jesti nykriezemy osobe tak by po prohý stronie prostaj zostato o osob to po lenej zostane (n-2)-per. Boolobnie -11- Zostaty 2 osoby to po leng zostanie (n-2) - per 6. -11- (n-1)-pary to po lenej zartania 0 0506 Shoro deictimy ne sume, mingszych poolproblemin to możno je myliczyć rebusen azjnie c li c = 1 c n = 2 c c n - i - liosbe Catelone i=0 Coupli n por osób moce negleores En resaistión



(5) (0,0,1,3,7,15,31,...)

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 $A = x^{3} + 3x^{3} + 7x^{5} + 19x^{6} + 31x^{7} + ... + 4n \times n$ $-3xA = 0 - 3x^{5} - 3x^{5} - 21x^{6} - 49x^{7} + ... + (-3x)a_{n-1}x^{n-1}$ $+2x^{2}A = 0 + 0 + 2x^{5} + 6x^{6} + 14x^{7} + ... + (+2x)a_{n-2}x^{n-2}$

 $3^{3}+0+0+0+0+0+0+0+\frac{1}{2^{n-2}+2^{n-3}-1}$ $2^{n-2}+\frac{1}{-3(2^{n-3}-1)2(2^{n-4}-1)}$ $2\cdot 2^{n-3}-1-3\cdot 2^{n-3}+3+2^{n-3}-2$ $2(2^{n-3}(2-3+1)=0$

 $A - 3xA + 2x^{2}A = x^{3}$ $A (1 - 3x + 2x^{2}) = x^{3}$ $A = \frac{x}{1 - 3x + 2x^{2}}$

a) me slowbre stitubati : (1+x+x²+x³+) (1+x²+x²+) (1+2+x²+) $\frac{1}{x^2-1}\frac{1}{1-x^2}$ 6) vire niepsyste (1+x) (1+x3)(1+x5) -... ∞ (1+x²¹⁻¹) c) migste od m (1+X+x²+... NASSA)(1+x²+...) (1+xm-1)+x1n-1)
5liobih 7 5liobih 2 (m-1)-ru $\frac{pn-1}{11} \frac{1}{1-x^2}$ d) noine potagi 2 $(1+x)(1+x^2)(1+x^4)(1+x^8)$ (1+x2')