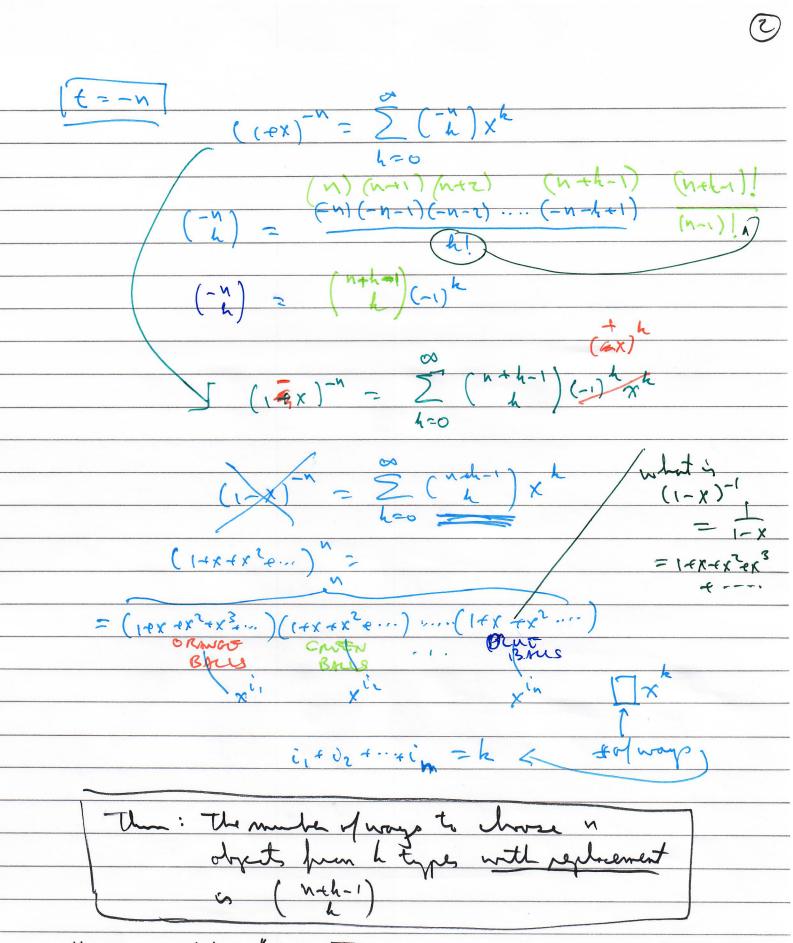
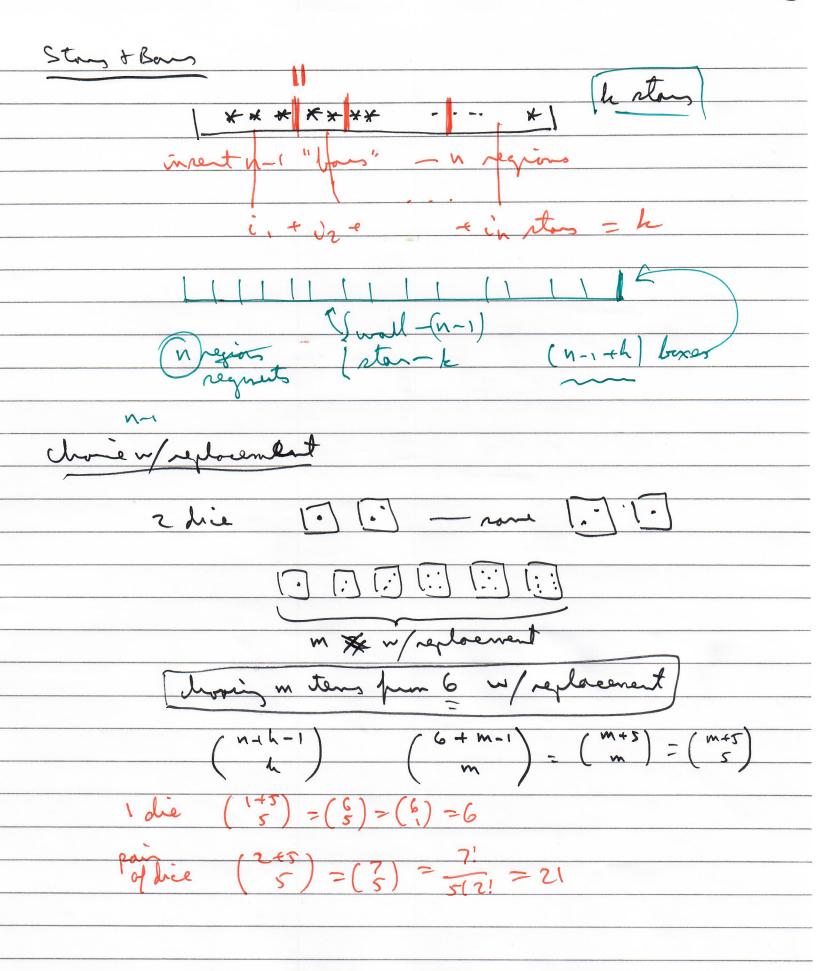
Biramid Thm (1+x) - coef of x is (n) h (n + i) = (n + i - i) \\ \frac{2}{h=0} h(\hat{n}) = n2^{n-1} (n) x h dx ... (h(h) x h-1 Exercise 2(h)/h x=1 -> sundall coop $\frac{d}{dr}\left(14x\right)^{n} = n\left(14x\right)^{n-1} \frac{d}{dr}\left(14x\right)$ $x=1 \quad NZ^{n-1}$ $(1+x)^{t} = 1+tx+\frac{t(t-1)}{2!}x^{2}+\frac{t(t-1)(t-1)}{3!}x^{3}$ + ··· + (+-1)(+-2)···(+-1)/h (h) = 1 7 k=0 $(1-x)^{t} = \sum_{h=0}^{\infty} (t) x^{h}$



"Stans and bows" counting



(t)= t(+-1) · · (+- h+1) (1+x)t = \(\frac{t}{h}\)\times $\sqrt{1+x} = \sum_{k=0}^{\infty} \binom{y_k}{k} \times k$ 2.3...(h-1) (1+7)/2 NUMBERS