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$\frac{2}{3}$ $\frac{1}{4}$ $\frac{2}{3}$ $\frac{9}{4}$ $\frac{1}{1}$ $\frac{1}{9}$ $\frac{1}{9}$ $\frac{1}{1}$ $\frac{1}{3}$ $\frac{1}{1}$ $\frac{1}$	
MATRICE RICORSIVA	
M: IN × NU — IR RICORSIVA COS	
$M_{n}(t) = M_{\underline{t}}(t) M_{\underline{t}}(t) \Longrightarrow M_{\underline{t}}(t) = (M_{\underline{t}}(t))^{n}$	
THIM SIR M(n, h)= (m)	
ALLORD E RIEDESIMA	
PROUF.	
$Assigno \qquad M_{1}(f) \cdot M_{A-1}(f) = m_{a}$	
$(1+1)(\frac{2}{2})(n-1)(1+1)(1+1)$	
Re-co	
$= \begin{cases} (t) = \sum_{k=0}^{\infty} e_k t^k & \text{one} \end{cases}$	
e = 2 M(1, h) M(m-1, k-h) VER NEF	
$= \Lambda \cdot M(\kappa - 1, k) + 1 \cdot M(\kappa - 1, k - 1)$	
$= 4 \cdot \binom{n-1}{k} + 4 \cdot \binom{n-1}{k-1} = \binom{n}{k}$	
$ \text{pa cu} \chi(t) = \sum_{k=1}^{\infty} C_{k} t \pm \sum_{k=2}^{\infty} \binom{n}{k} t \pm \sum_{k=1}^{\infty} \binom{n}{k} t$	
ME SECHE IL THM BINDMIRLE:	
$(1+t)^{n} \stackrel{\text{low}}{=} \stackrel{\lambda_{1}}{\geq} (n)^{n}$	
Rec &	
CONVOLUZIONE DI VANDERMONDE (BINOMINE)	
M(n,h) = (M) (AGO BINOMINE	
$M_{4}(t) = 1+t$ $M_{4}(t) \stackrel{\text{net}}{=} \underbrace{\sum_{k=0}^{\infty} \binom{n_{k}}{k}} t^{\frac{1}{2}} \stackrel{\text{Town}}{=} (1+t)^{n_{k}} \underbrace{\sum_{k=0}^{\infty} \binom{n_{k}}{k}} t^{\frac{1}{2}} t^{\frac{1}{2}} \underbrace{\sum_{k=0}^{\infty} \binom{n_{k}}{k}} t^{\frac{1}{2}} \underbrace{\sum_{k=0}^{\infty} $	
URA C, j e 71 t.c. i+j=m.	
My orn	

