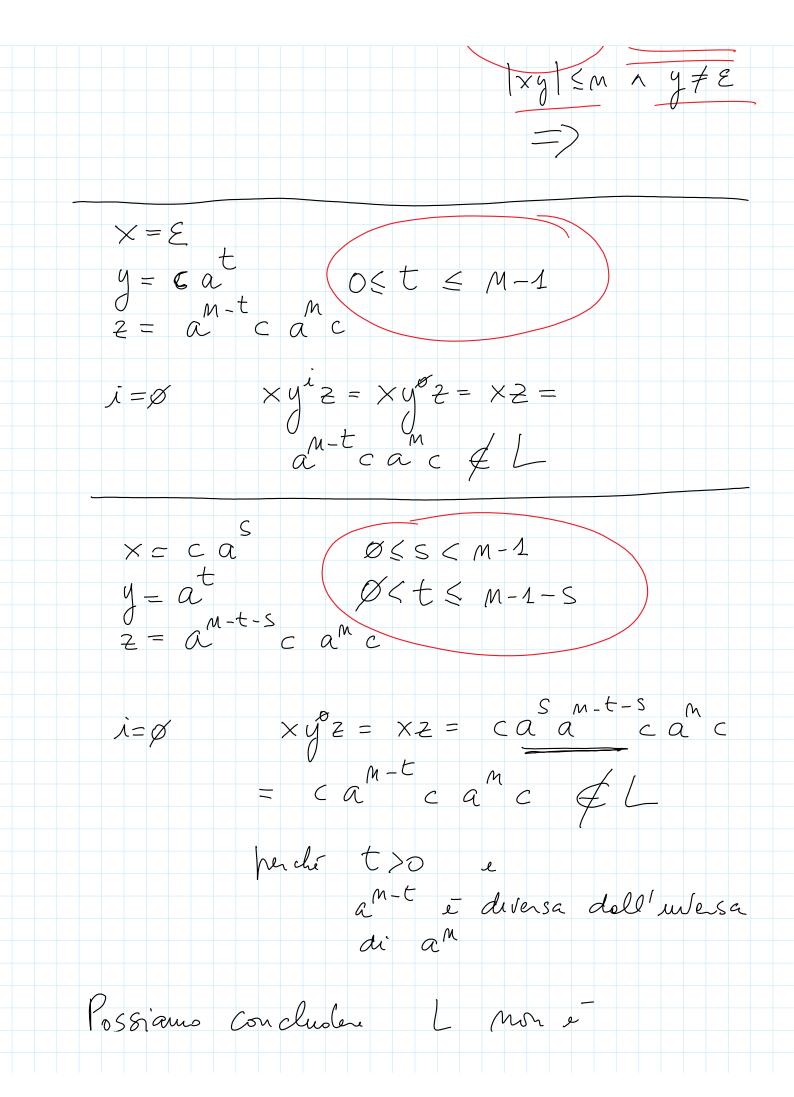




 $L = \left\{ c < c < R < | x \in \{a,b\}^{+} \right\}$ e x depuis come ar = a $a \in \mathcal{N}$ $(a \times)^R = \langle R \rangle$ $a \in \mathcal{N}$ $d \in \mathcal{N}^+$ PUMPING LEMMA per dimostrere L Mon i regolere YMEW, Qualingue na M menshamo la struga weL w= cabacbaac w= cabac pomiano prenden queste $|w| = |ca^m ca^m c| > m$ 2m+3 m(Y x,y,z.) W= xyz 1 $W = Ca^n Ca^n C$ TX41 CM 1 4 7 8





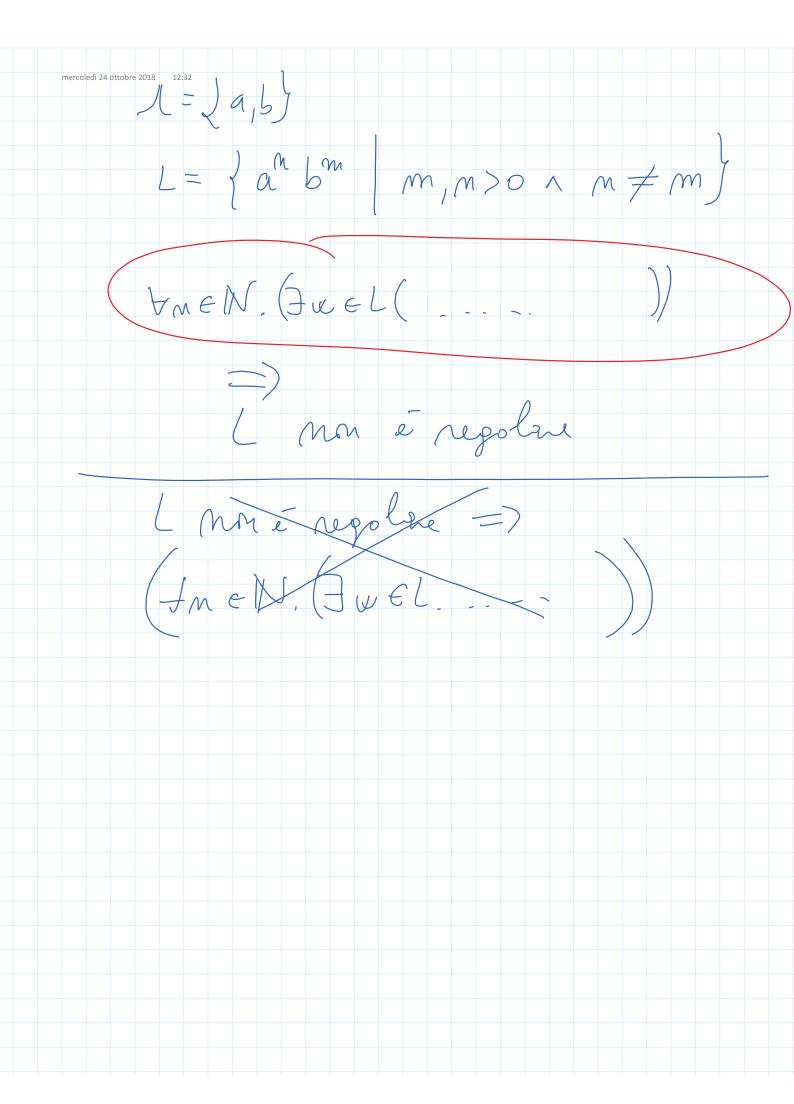
Ouvelinge n'a m pundo le slinga W = Ca Ca C, tiele de mercoledì 24 ottobre 2418W1;46> M Considers tutte le ponihil' modelisisioni in xy & tel: cle |xy| < m e y \ E y = ca y = ca 0 < t < m-1 2 = a a aper i=0 le struga a^{n-t}cac £C dets de monce le c inimale 2) x = ca $0 \le S \le M-1$ $y = a^{t}$ $0 \le S \le M-1$ $0 \le M-1-S$ $0 \le M-1-S$ $0 \le M-1$ her i = 0 le struga cam-t m her de m-t mon é l'inversa di a L mon à répolère. Quinoli

Si scriva une functione C de, dets un voorbegt a di dimensioni dim, restituisce il value di verite delle reguente for unle: $(\forall i \in [1, dim).$ $\in [1, dim].$ $(\exists f \in [\emptyset, i]. a[i] = [x = f].$ S = a(k)k E [J,i) int enstesomma (int i, int a)

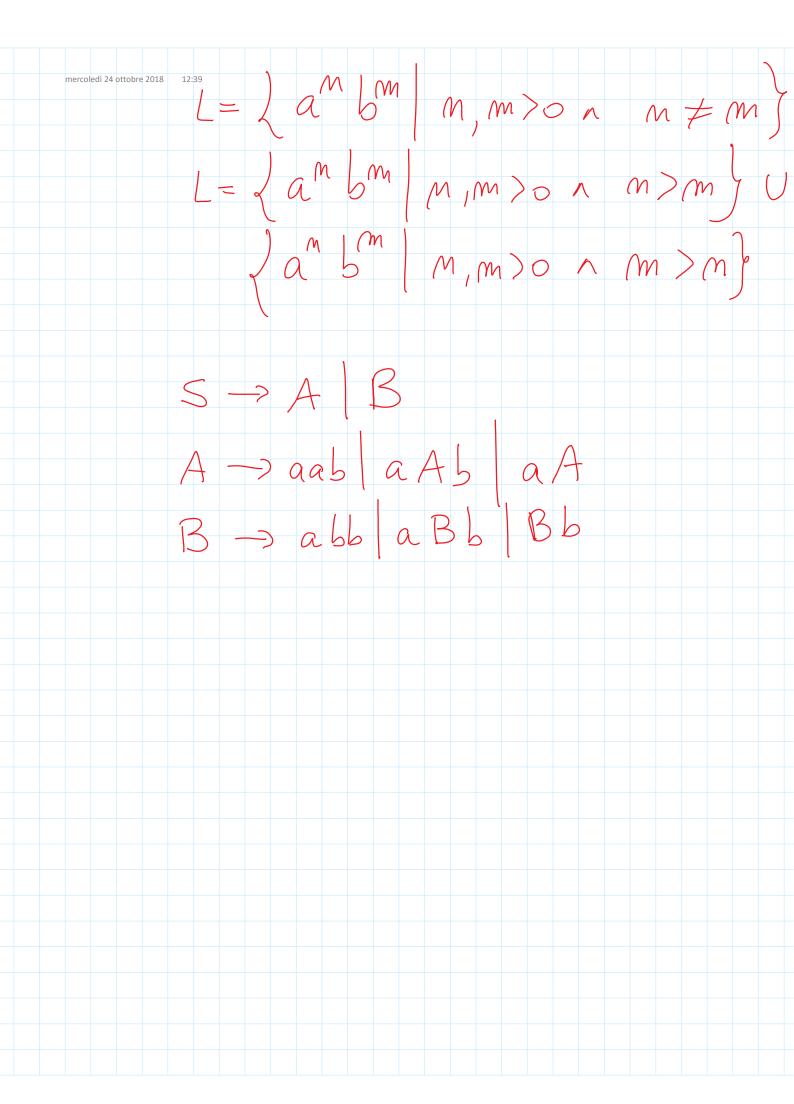
mt somme (int at), int juisio, int fu $\begin{cases} int i; \\ int s = \emptyset; \end{cases}$ for $(i = imimo ; i \in \{nm; i+1\})$ S = S + a(i);return S; int eriste somme (inti, unt a []) int $j = \emptyset$; a composition of j int thouats $j = \emptyset$; the contract $j = \emptyset$; the contract $j = \emptyset$; the contract $j = \emptyset$ is a contract $j = \emptyset$. if (ssume(a, f, i) == a[i])trovat =1; else J++ j return trovats;

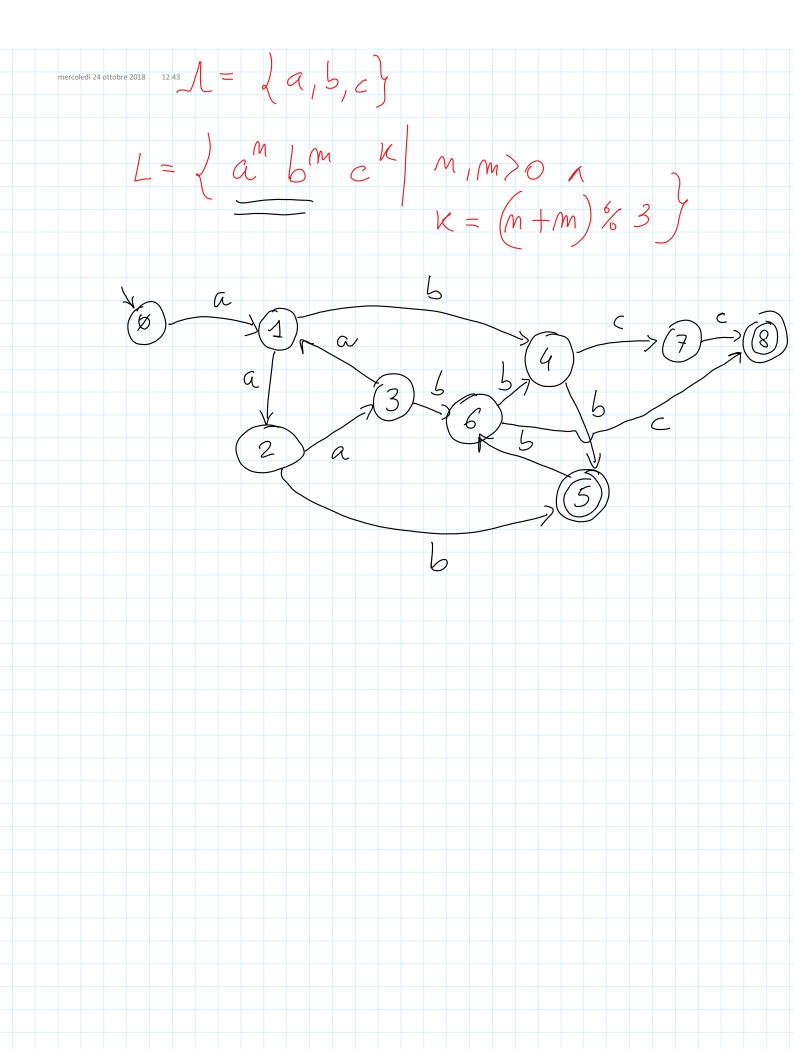
mercoled 24 ottobie 2018 t 12:07 formule (int a(x), int a(x)) if (ensternma (i,a)) it; int a(x) if (ensternma (i,a)) it; int a(x) if (lens tensum 28 on) [= if (lens tensum 28 on)] ele it+j zretinu ok;

int en ste nomme (int i, int a [) int j= ø; int travata = Ø; int S = Somme (a, Ø, i); While (F<i &&! trovato) if (a[i) = = s) trovat= 1; ela S = S - a(F); return to vat i



Qualmque ma m prends ve EL tele de ve 2 M $a^{m}b^{m+1} \in L$ $x = a^{5} \quad 0 \leq S \leq m$ $y = a^{t} \quad 0 \leq t \leq m - s$ $z = a^{m-t-s} \cdot b^{m+1}$ ×y12 EL $i \in \mathbb{N}$ a.-. a b...- b, y=a2 xyiz £ C $a^{m-2}b^{m+1}$ $m-2 \neq m+1$ 1=0 an bm+1 eLi = 1 ant2 6m+1 x=2





am bn m > m(L=) am b^n m > 0, m > 1, $m \ge m-1$ Qualunghe na n premb le struga x = a y = at 2 = an - t - S 2 = an - t - S $\times y^{\sigma} z = \times z = a^{m-t} b^{m+1} \not\in L$ det de m-t < m