$$\frac{\operatorname{Tran}}{\chi} \left[ \begin{array}{c} \operatorname{farrington} \right] : \text{If } f \text{ can be computed} \\ \text{by a circuit } d \text{ light } d_{1}, \text{ it can be computed} \\ \text{by a breaking program } d \text{ width } 5, \text{ bfl } O(f^{d}). \\ \hline \\ \begin{array}{c} Converse : & \text{If } f \text{ can be computed} & \text{by} \\ a & \text{br.p } d \text{ width } O(1), \text{ loght } 2^{d}, \text{ then} \\ \text{it can be computed } \text{by a circuit } d \text{ dight} \end{array} \right] f: 50, 0^{n} \rightarrow 50, 15 \\ d & b.p & d \text{ width } O(1), \text{ loght } 2^{d}, \text{ then} \\ 0(d) = Cd \\ \hline \\ \begin{array}{c} Pf & d \text{ converse} : & 2^{d-2} & 2^{d-1} \\ \hline \\ & & & & & \\ \end{array} \right] \\ \hline \\ C(d-1) & & & \\ \end{array} \right] \\ \hline \\ \begin{array}{c} P_{x} = g_{x}h_{x} \\ C(d-1) & & \\ \end{array} \right] \\ \hline \\ \begin{array}{c} P_{x} = g_{x}h_{x} \\ \hline \\ \end{array} \right] \\ \hline \\ \begin{array}{c} P_{x} = g_{x}h_{x} \\ \end{array} \right] \\ \hline \\ \end{array} \\ \hline \\ \begin{array}{c} P_{x} = g_{x}h_{x} \\ \end{array} \\ \hline \\ \begin{array}{c} P_{x} = g_{x}h_{x} \\ \end{array} \\ \hline \\ \end{array} \\ \hline \\ \begin{array}{c} P_{x} = g_{x}h_{x} \\ \end{array} \\ \hline \\ \begin{array}{c} P_{x} = g_{x}h_{x} \\ \end{array} \\ \hline \\ \begin{array}{c} P_{x} = g_{x}h_{x} \\ \end{array} \\ \hline \\ \end{array} \\ \hline \\ \begin{array}{c} P_{x} = g_{x}h_{x} \\ \end{array} \\ \hline \\ \begin{array}{c} P_{x} = g_{x}h_{x} \\ \end{array} \\ \hline \\ \begin{array}{c} P_{x} = g_{x}h_{x} \\ \end{array} \\ \hline \\ \begin{array}{c} P_{x} = g_{x}h_{x} \\ \end{array} \\ \hline \\ \end{array} \\ \hline \\ \begin{array}{c} P_{x} = g_{x}h_{x} \\ \end{array} \\ \hline \\ \begin{array}{c} P_{x} = g_{x}h_{x} \\ \end{array} \\ \end{array} \\ \begin{array}{c} P_{x} = g_{x}h_{x} \\ \end{array} \\ \begin{array}{c} P_{x} = g_{x}h_{x} \\ \end{array} \\ \hline \\ \begin{array}{c} P_{x} = g_{x}h_{x} \\ \end{array} \\ \end{array} \\ \begin{array}{c} P_{x} = g_{x}h_{x} \\ \end{array} \\ \end{array} \\ \begin{array}{c} P_{x} = g_{x}h_{x} \\ \end{array} \\ \end{array} \\ \begin{array}{c} P_{x} = g_{x}h_{x} \\ \end{array} \\ \end{array} \\ \begin{array}{c} P_{x} = g_{x}h_{x} \\ \end{array} \\ \end{array} \\ \begin{array}{c} P_{x} = g_{x}h_{x} \\ \end{array} \\ \end{array} \\ \begin{array}{c} P_{x} = g_{x}h_{x} \\ \end{array} \\ \end{array} \\ \begin{array}{c} P_{x} = g_{x}h_{x} \\ \end{array} \\ \end{array} \\ \begin{array}{c} P_{x} = g_{x}h_{x} \\ \end{array} \\ \end{array} \\ \begin{array}{c} P_{x} = g_{x}h_{x} \\ \end{array} \\ \end{array} \\ \begin{array}{c} P_{x} = g_{x}h_{x} \\ \end{array} \\ \end{array} \\ \begin{array}{c} P_{x} = g_{x}h_{x} \\ \end{array} \\ \end{array} \\ \begin{array}{c} P_{x} = g_{x}h_{x} \\ \end{array} \\ \end{array} \\ \begin{array}{c} P_{x} = g_{x}h_{x} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} P_{x} = g_{x}h_{x} \\ \end{array} \\ \end{array} \\ \begin{array}{c} P_{x} = g_{x}h_{x} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} P_{x} = g_{x}h_{x} \\ \end{array} \\ \end{array} \\ \begin{array}{c} P_{x} = g_{x}h_{x} \\ \end{array} \\ \end{array} \\ \begin{array}{c} P_{x} = g_{x}h_{x} \\ \end{array} \\ \end{array} \\ \begin{array}{c} P_{x} = g_{x}h_{x} \\ \end{array} \\ \end{array} \\ \begin{array}{c} P_{x} = g_{x}h_{x} \\ \end{array} \\ \end{array} \\ \begin{array}{c} P_{x} = g_{x}h_{x} \\ \end{array} \\ \end{array} \\ \begin{array}{c} P_{x} = g_{x}h_{x} \\ \end{array} \\ \end{array} \\ \begin{array}{c} P_{x} = g_{x}h_{x} \\ \end{array} \\ \end{array} \\ \begin{array}{c} P_{x} = g_{x}h_{x} \\ \end{array} \\ \end{array}$$
 \\ \begin{array}{c} P\_{x}

