9.3,4)

Tp = (en * t + (4 - 1) * t =) pipelined execution time Ts = 4 * (en * t =) unpipelined execution time

for one step to be executed a = overhead

(en (++ov)

for remaining 3 steps 3(t+ov)

for all steps required time is (lent3), (t + ox)

I = (len+3) (+tox) must be smaller than 1
4+len+t for pipeline to be faster.

len=24

 $\frac{27+2700}{96+}$

270v < 69 t oy < 69 t

 $0 < \frac{23t}{9}$

overhead must be smaller than 2.55