





$$S_{5}^{*}(t_{5}) = L \quad (Lod)$$

$$S_{5}^{*}(t_{p}) = T \quad (struggle)$$

$$S_{5}^{*}(t_{p}) = S \quad (shirk)$$

so, if profitable project is chosen, bank's BNE is L, and firm's BIVE is T. So, we can verify that note like this flow.

10.
(a)
$$V_c = 6 + 6.5 + ... = \frac{6}{1 - 6}$$

 $V_0 = 4 + 4.5 + ... = \frac{4}{1 - 6}$

If history is C , payoff motrix is lite this,

1	of C			b b	
C	6+5.Vc	6 + S.Vc	2+S.VD	8+5.40	
D	8+S.V _D	2 + J.Vp	4+J.Vp	4+6.Vp	

If to pass single deviation test with grim trigger strategy,

$$6+5.\frac{6}{1-5} \ge 8+5.\frac{-4}{1-4}$$
 $2.5 \ge 2-25$

we need this

(b) history, D payoff is like this,

2 (D

C 6+5.Vp, G+5.Vp 2+5.Vp, 8+5.Vp

D 8+5.Vp, 2+5.Vp 4+5.Vp, 4+5.Vp

In this case, already pick (D,D) without any condition in of.

So, this could be pass single deviation test.

(c) So, Finally this grim & trigger strukgy is could be stay in (C,C) when $1 \le S < 1$.

And this could be pass single deviation test because they both players do not have incentive to chase D because C is more beneficial.

So, there strategies could pars single deviation test.