Therefore both days:
$$E(1) = E(2) = \frac{1}{3}U(2000) + \frac{2}{3}U(-1000)$$

$$= \frac{2000}{3} + \frac{2}{3}X(-2000)$$

$$= -\frac{2000}{3} = -\frac{4000}{3}$$

$$E(1+2) = 2X(-\frac{2000}{3}) = -\frac{4000}{3}$$

:- Carter is better off checking at the end of the sewond day

(b) In Mental accounting, the loss also looms larger than gains and the framing matters = $\frac{2000}{3} = 1000 \times \frac{2}{3}$

And checking everyday is an example of "Myopic loss aversion", so Center should always avoid checking everyday

Thus, no value of I would make carter botter off from checking the portfilio everyday.

2 (a)
$$\therefore P_{t} + S_{t} \leq Y_{0} + G_{1}, 2 = T_{1}, 2 = T_{2}$$

$$\therefore U = \log(4w - S_{1} - P_{F}) + \log(4w - S_{2} - P_{F}) + \log(5_{1} + 5_{2})^{2}$$
FOC in $S_{1} = -\frac{1}{4w - S_{1} - P_{F}} + \frac{2}{5_{1} + 5_{2}} = 0$

$$= 0$$
FOC in $S_{2} = -\frac{1}{4w - S_{2} - P_{F}} + \frac{2}{5_{1} + 5_{2}} = 0$

$$\Rightarrow 0 - 2S_{1} - 2P_{F} = S_{1} + S_{2}$$

$$\Rightarrow S_{1} \text{ must equals to } S_{2}^{*}$$

$$\Rightarrow S_{2} - 2S_{1} - 2P_{F} = S_{1} + S_{2}$$

$$\Rightarrow S_{3} - 2S_{1} - 2P_{F} = S_{1} + S_{2}$$

(C) Because the optimal party hours choices are "20 + 2 PF", which means the choices of party hours is affected by friends (peers). Specifically as friends go to more parties, Bruce will spend less time in study and more time in parties.

Then, from the utility function, it is obvious that as PF increases, the utility for Bruce will decrease. Thus, it is a negative peer effects for

Bruce.

() living in M: When PF=20 at 0.7 & PF=0 at 0.3 U=10g(40-SI-PF)+log(40-Sz-PF)+log(SI+Sz)² =log(PI-PF)+log(Pz-PF)+zlog(SI+Sz)

D Living in D: when PF=15 At 0.5 & PF=10 At 0.5

1. 5.14827 4.96 is Bruce should live in down