1)find the derivative

3-2UL + 0.6mUL + 0.3c – 0.3m

2) Solve for ul by setting the derivative equals to 0:

3-2UL + 0.6mUL + 0.3c – 0.3m = 0

-2UL+0.6mUL=-3+0.3m-0.3c

UL(-2+0.6m) =-3+0.3m-0.3c

UL = $\frac{-3+0.3m-0.3c}{-2+0.6m}$

3)find second order dervetive:

(If result of second order < 0 then the ans is local maxima if second order > 0 then local minima)

$\frac{d^2}{dUL^2} J_{UL}(UL, R(UL))$

= 0-2+0.6m+0-0

=-2+0.6m < 0 therefore local maxima

Private int bestStartegy(m,c){

}