```
Kyle Spence
                                                                          Page 1
                                                                          Mult
            Mult
           £0=68}
            i := y;
           ons:=0;
           WHILE I != 0 DO
              Ons := ons + \infty;
                 i := i-1
           LOOP
           fans = x * y
                                   1 Sequencing rule
                                     We must now prove the following
                                     ('I' represents Loop invariant):
                                     1){I} WHILE i != 0 00 ons := ons + \infty; i := i = 1
                                          Loopfans = x * 47
                                     2) {Q} ons := O{I}
                                     3) fy >= Of i := 4 fof f
           $I}
           WHILE i != 0 DO
              Qns := Qns + \infty;
               i := i-1
           LOOP
          Jans = x + 47
                                    { While rule/Postcondition Weakening
                                      We must now prove the following:
                                       1.1) \{I \land i := 0\} ans := ans + \infty;
                                                         i == i-1/I}
                                       1.2) [I \land \neg (i!=0)] \Rightarrow [ans = x*y] \hat{f}
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Thus

Signs spence

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1.2)

$$[(i*x) + ans = x*y \land \neg(i!=0)] \Rightarrow [ans = x*y]$$

¿Pure Logic?

$$[ans = x^*y] \Rightarrow [ans = x^*y]$$

Ereflexivity of implications

True

2)

£Q}

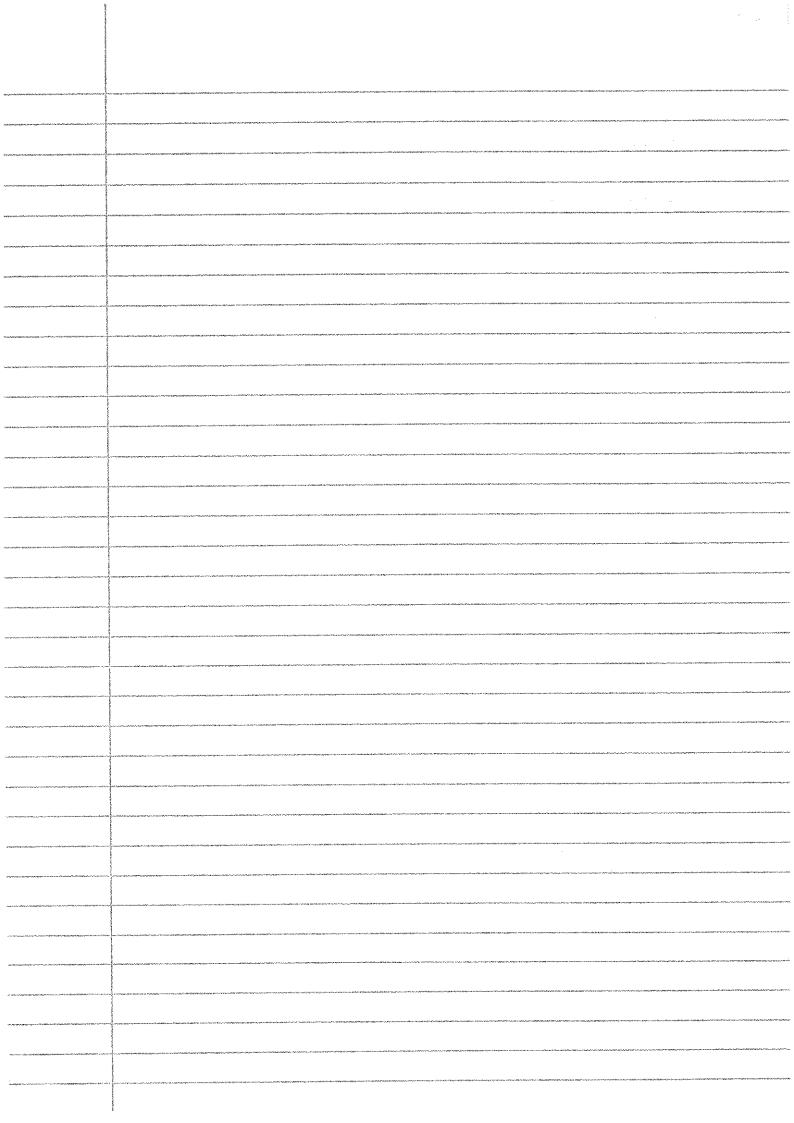
 $\frac{Qns := 0}{\sum (i \cdot x) + Qns = x^{*}y^{2}}$ 

{Assignment oxion}

$$Q = ((i*x) + ans = x*y) [0/ans] = (i*x = x*y)$$

Elve have obtained Qf

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		$LOOP \{ x = (0, 4) + (x, 4) \}$	
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1.1) EV = 67 / 13 9:=9+1;r:=r-4 **}I**} { Select loop invariant I:  $I = \left[ x = (Q^* Y) + \Gamma \right]$  $\{x = (9^*y) + \Gamma \land \Gamma = y\}$  $Q_{i} = Q_{i} + 1$ ; r:= r-4 fr (€\*4) = ∞} & Sequencing rule We must now prove the following: 1.1.1) {R} r:= r-y & \infty = (9\*4) + r} 1.1.2) 8 = (9/4) + r /1 r >= 43 q := 9,+ 18R3 } [.].] SR? Γ:=Γ-4  $\{\infty = (0, y) + r\}$ { Assignment oxiom}  $R = (\infty = (9*9) + \Gamma) [\Gamma - 9/\Gamma] = (\infty = (9*9) + \Gamma - 9]$ ¿Ve have obtained R?

$$\begin{array}{c} \text{lil} & \text{li$$

1.2)

$$\left[\infty = (Q^*y) + \Gamma \wedge \neg (\Gamma) = y\right] \Rightarrow \left[\infty = (Q^*y)\right]$$

{Pure logic}

$$\left[\infty = (9, 9)\right] \Rightarrow \left[\infty = (9, 9)\right]$$

{Reslexivity os implication}

True

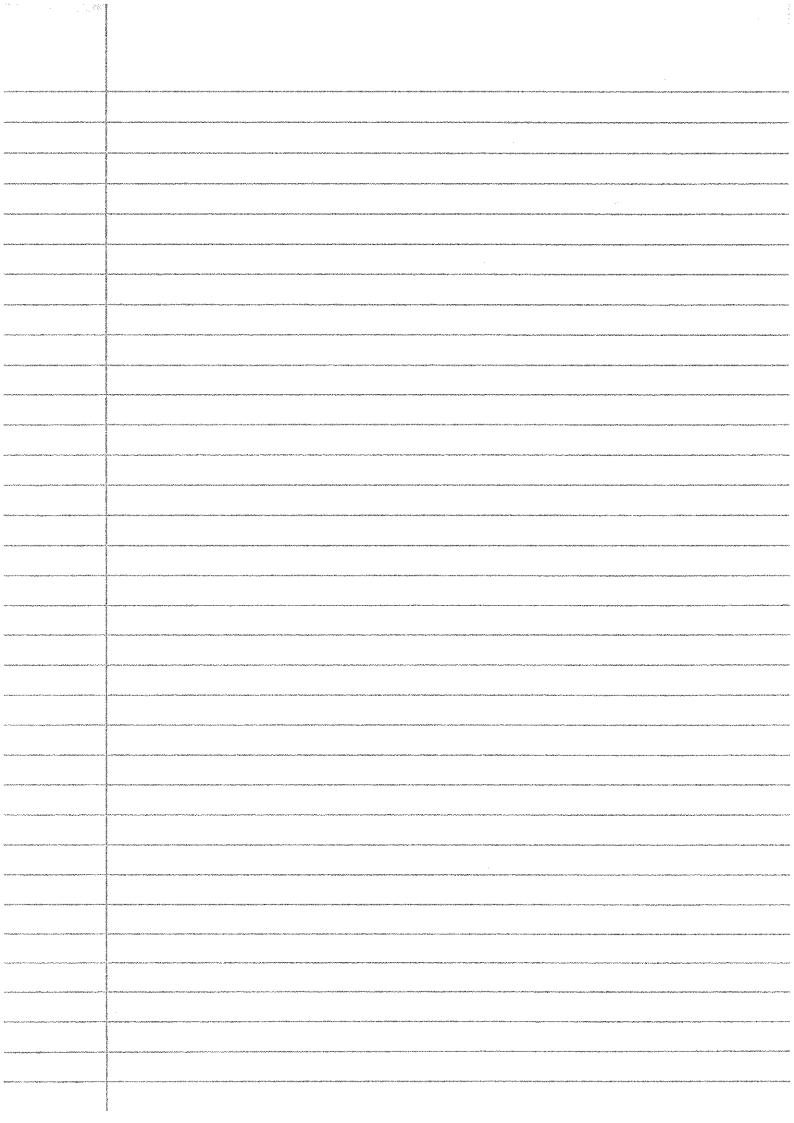
2)

q:=0 {x=(q\*y)+r}

$$Q = (\infty = (9*y) + \Gamma)[0/9] = [\infty = \Gamma]$$

{Ve have obtained Q}

Kyle Spence		Page 10 Quot
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	[x)=0 / y) (] => [True]	
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**************************************	§n >= 0}		
	i:=n;		
ertinis-Contraction (children) etti perio (thi periodi periodi periodi periodi periodi periodi periodi periodi Periodi periodi	Ons := 0;		
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ing and a second physical phys		('I' represents Loop invariant):	Mary Agent
TO BE A COMMITTED TO THE STATE OF THE STATE		1) {I} WHILE i != 0 DO ons := ons+i; i := i-1	
	The second secon	LOOP { ans = (n*(n+1))/2}	
	The second secon	2){Q} ans := 0 {I}	
		3) {n > = 0 } i : = n {0} }	
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and a Charles and the state of		1.1) $\{I \land i \mid = 0\}$ ans := ans +i; i := $i-1\{I\}$ 1.2) $[I \land \neg (i \mid = 0)] \Rightarrow [ans = (n*(n+1))/2] \}$	
		$[1.2] [I \land \neg (i!=0)] \Rightarrow [ans = (n*(n+i))/2] $	***************************************
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	Property		

 $\frac{\sum ||x||^2 + |x||^2}{|x||^2}$ Ons := Ons + i;

[ := i - ]

<u>{</u>[]

{ Select loop invariant I:

I = [((i \* (i+1))/2) + ans = (n\* (n+1))/2]

 $\S((i*(i+i))/2) + ans = (n*(n+i))/2 \S/1 i!=0 \S$ 

ans := ans+i;

i := i-1

 $\{((i*(i+i))/2) + \text{ons} = (n*(n+i))/2\}$ 

{ Sequencing rule

We must now prove the following:

1.1.1)  $\{R\{i := i-1\}((i*(i+i))/2) + ans = (n*(n+1))/2\}$ 1.1.2)  $\{(i*(i+i))/2) + ans = (n*(n+i))/2 \land i != 0\}$  ans = ans+iff

[1.1.1]

SR?

r:= r- y

 $\xi((i*(i+1))/2) + \alpha ns = (n*(n+1))/2$ 

£ Assignment axiom?

R = (((i\*(i+1))/2) + ans = (n\*(n+1))/2)[i-1/i] = [(((i-1)\*((i-1)+1))/2) + ans = (n\*(n+1))/2]

Elve have obtained R3

kyle spence	Page 13 Tri
	[.1.2)
and the state of t	$\frac{S((i^*(i+1))/2) + ans = (n^*(n+1))/2 \wedge i! = 0}{200000000000000000000000000000000000$
	Ons := ons + i $\xi(((\bar{i}-1)^*((\bar{i}-1)+1))/2) + ons = (n^*(n+1))/2 \hat{\xi}$
	EAssignment axiom?
	$((((i-1))^*((i-1)+1))/2) + ans = (n*(n+1))/2 [ans+i/ans]$
	S Expand Substitution?
	$\mathbb{E}(((i-1)^*((i-1)+1))/2) + (\cos + i) = (n * (n+1))/2$
	& Arithmetic?
	[((i*(i+1))/2) + ans = (n*(n+1))/2]
	$\frac{\text{SPrecondition strengthening}}{\text{Ve must now prove the following:}}$ $\frac{\text{I.1.2.l)} P = \mathbb{E}((i*(i+1))/2) + \text{cns} = (n*(n+1))/2 \land i! = 0}{\text{P'} = \mathbb{E}((i*(i+1))/2) + \text{cns} = (n*(n+1)/2)}$ $P \Rightarrow P' $
	1.1.2.1)
начина при	SPWE LOGICE
	True

1.2)

$$[((i*(i+1))/2) + ans = (n*(n+1))/2 / -(i!>0)] \Rightarrow (ans = (n*(n+1))/2]$$

£ Pure Logic?

[ans = 
$$(n * (n+1))/2$$
] => [ans =  $(n * (n+1))/2$ ]

EREflexivity of implication?

True

2)

{Q} ans := 0

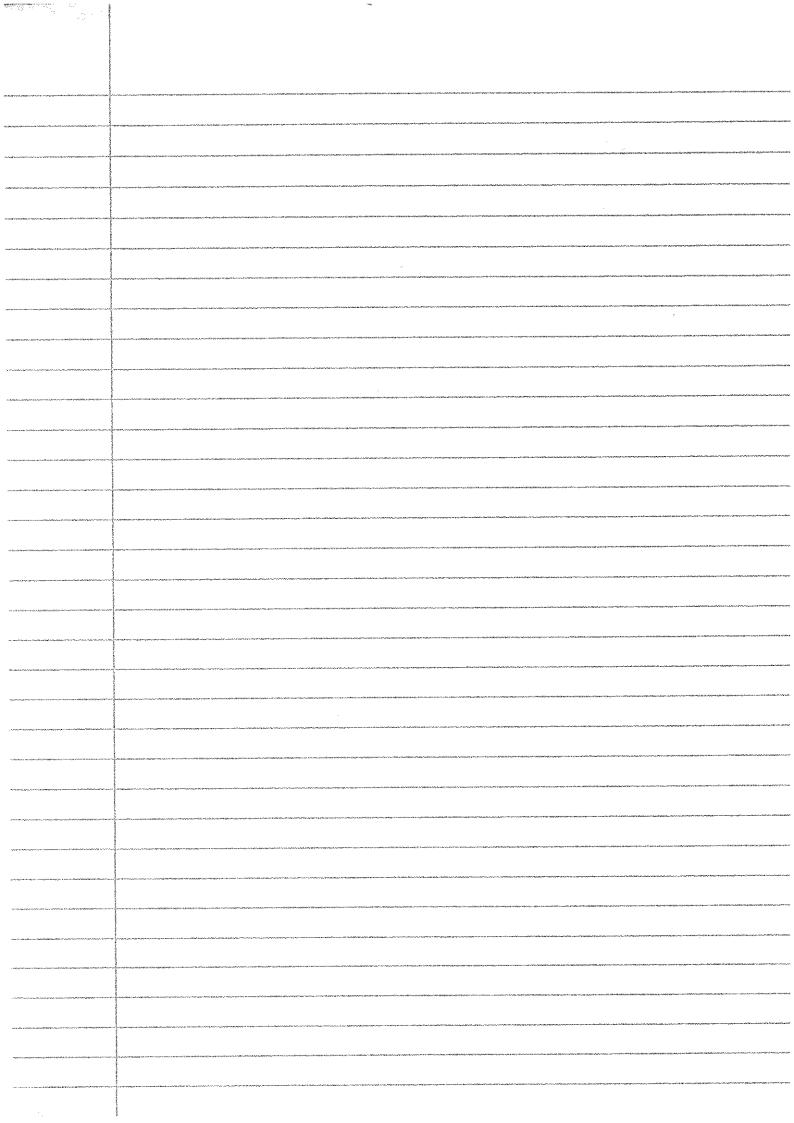
 $\frac{5}{5}((i*(i+1))/2) + ans = (n*(n+1))/2$ 

{Assignment axion}

Q = (((i\*(i+1))/2) + ans = (n\*(n+1))/2[0/ans] = [((i\*(i+1))/2) = (n\*(n+1))/2]

£ We have obtained Q?

Kyle Spence		Page 15 Tri	SOURCE CONTRACTOR OF THE PARTY
	3)		PROUP STRAINS AND ASSESSED.
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