```
Function Sum
 {420}
    Z:=x;
    1:= 4;
    WHILE n != 0 DO
       2:= 2+1;
       n:=n-1;
     Loop
  {Z= x+y3
                            { Sequencing Rule }
1) { I }
   WHILE N != 0 DO
        Z:= 군+1;
        n:n-1;
    LOOP
    { = x+y}
                           Ewhile rules
1.1) {I / n!=0}
     7:=2+1;
     n := n-1;
   SIZ
                             {Apply loop Invariant}
I=[2+n=x+y]
 {Z+n=x+y 1 1 = 0}
Z:= Z+1;
    n:= n-1;
 {Z+n= 2+4}
                           { Sequencing Rule}
11.1) {R}
    n:= n=1
    {Z+n=x+y}
                          {Assignment axiom}
```

$$R = (Z+n = x+y)[n-1/n]$$

$$= (Z+n-1 = x+y)$$

$$1.1.2) \quad \{Z+n = x+y \land n! = 0\}$$

$$2:=Z+1$$

$$\{Z+n-1 = x+y\}$$

$$\{Z+n-1 = x+y$$

$$\{Z+n-1 = x+y$$