Entry

X { 
$$a := \phi [0, \text{Entry}] [a', Z]$$
 }
 $i := \phi [0, \text{Entry}] [i', Z]$  }
 $a' := a + 2$ 

Y  $c := i + 3$ 

Z  $i' := a' + c$ 

S  $1000$ 

{  $a := \phi [0, \text{Entry}] [a', Z]$  }
 $i := \phi [0, \text{Entry}] [i', Z]$  }

Exit

Execute  $S_{1000}$  k times followed by  $S_{preExit}$