in(s)	S	out(s)	gen(s)	kill(s)
	0: max = 1000	0	0	
0	1: $x = 0$		1	5
	2: y = 1		2	6
	3: if (y > max) goto 8			
	4: $z = x + y$		4	
	5: $x = y$		5	1
	6: $y = z$		6	2
	7: goto 3			
	8: write(y)			

in(s)	S	out(s)	gen(s)	kill(s)
	0: max = 1000	0	0	
0	1: $x = 0$	0 1	1	5
0 1	2: y = 1		2	6
	3: if (y > max) goto 8			
	4: $z = x + y$		4	
	5: $x = y$		5	1
	6: $y = z$		6	2
	7: goto 3			
	8: write(y)			

in(s)	S	out(s)	gen(s)	kill(s)
	$0: \max = 1000$	0	0	
0	1: $x = 0$	0 1	1	5
0 1	2: y = 1	0 1 2	2	6
0 1 2	3: if (y > max) goto 8			
	4: $z = x + y$		4	
	5: $x = y$		5	1
	6: $y = z$		6	2
	7: goto 3			
	8: write(y)			

in(s)	S	out(s)	gen(s)	kill(s)
	$0: \max = 1000$	0	0	
0	1: $x = 0$	0 1	1	5
0 1	2: y = 1	012	2	6
0 1 2	3: if (y > max) goto 8	0 1 2		
0 1 2	4: $z = x + y$		4	
	5: $x = y$		5	1
	6: $y = z$		6	2
	7: goto 3			
012	8: write(y)			

in(s)	S	out(s)	gen(s)	kill(s)
	$0: \max = 1000$	0	0	
0	1: $x = 0$	0 1	1	5
0 1	2: y = 1	0 1 2	2	6
0 1 2	3: if (y > max) goto 8	0 1 2		
0 1 2	4: $z = x + y$	0124	4	
0124	5: $x = y$		5	1
	6: $y = z$		6	2
	7: goto 3			
0 1 2	8: write(y)			

in(s)	S	out(s)	gen(s)	kill(s)
	$0: \max = 1000$	0	0	
0	1: $x = 0$	0 1	1	5
0 1	2: y = 1	0 1 2	2	6
0 1 2	3: if (y > max) goto 8	012		
0 1 2	4: $z = x + y$	0124	4	
0124	5: $x = y$	0245	5	1
0245	6: $y = z$		6	2
	7: goto 3			
0 1 2	8: write(y)			

in(s)	S	out(s)	gen(s)	kill(s)
	$0: \max = 1000$	0	0	
0	1: $x = 0$	0 1	1	5
0 1	2: y = 1	0 1 2	2	6
012	3: if (y > max) goto 8	0 1 2		
012	4: $z = x + y$	0124	4	
0124	5: $x = y$	0 2 4 5	5	1
0 2 4 5	6: $y = z$	0 4 5 6	6	2
0 4 5 6	7: goto 3			
0 1 2	8: write(y)			

in(s)	S	out(s)	gen(s)	kill(s)
	$0: \max = 1000$	0	0	
0	1: $x = 0$	0 1	1	5
0 1	2: y = 1	0 1 2	2	6
012456	3: if (y > max) goto 8	0 1 2		
0 1 2	4: $z = x + y$	0124	4	
0124	5: $x = y$	0 2 4 5	5	1
0 2 4 5	6: $y = z$	0456	6	2
0 4 5 6	7: goto 3	0 4 5 6		
0 1 2	8: write(y)			

in(s)	S	out(s)	gen(s)	kill(s)
	0: max = 1000	0	0	
0	1: $x = 0$	0 1	1	5
0 1	2: y = 1	012	2	6
012456	3: if (y > max) goto 8	012		
0 1 2	4: $z = x + y$	0124	4	
0124	5: $x = y$	0 2 4 5	5	1
0 2 4 5	6: $y = z$	0456	6	2
0 4 5 6	7: goto 3	0 4 5 6		
0 1 2	8: write(y)	0 1 2		

in(s)	S	out(s)	gen(s)	kill(s)
	0: max = 1000	0	0	
0	1: $x = 0$	0 1	1	5
0 1	2: y = 1	0 1 2	2	6
012456	3: if (y > max) goto 8	012456		
012456	4: $z = x + y$	0124	4	
0124	5: $x = y$	0 2 4 5	5	1
0 2 4 5	6: $y = z$	0 4 5 6	6	2
0 4 5 6	7: goto 3	0 4 5 6		
012456	8: write(y)	012		

in(s)	S	out(s)	gen(s)	kill(s)
	$0: \max = 1000$	0	0	
0	1: $x = 0$	0 1	1	5
0 1	2: y = 1	0 1 2	2	6
012456	3: if (y > max) goto 8	012456		
012456	4: $z = x + y$	012456	4	
012456	5: $x = y$	0 2 4 5	5	1
0 2 4 5	6: $y = z$	0 4 5 6	6	2
0456	7: goto 3	0 4 5 6		
012456	8: write(y)	0 1 2		

in(s)	S	out(s)	gen(s)	kill(s)
	0: max = 1000	0	0	
0	1: $x = 0$	0 1	1	5
0 1	2: y = 1	0 1 2	2	6
012456	3: if (y > max) goto 8	012456		
012456	4: $z = x + y$	012456	4	
012456	5: $x = y$	02456	5	1
02456	6: $y = z$	0456	6	2
0 4 5 6	7: goto 3	0 4 5 6		
012456	8: write(y)	012		

in(s)	S	out(s)	gen(s)	kill(s)
	0: max = 1000	0	0	
0	1: $x = 0$	0 1	1	5
0 1	2: y = 1	0 1 2	2	6
012456	3: if (y > max) goto 8	012456		
012456	4: $z = x + y$	012456	4	
012456	5: $x = y$	02456	5	1
02456	6: $y = z$	0 4 5 6	6	2
0 4 5 6	7: goto 3	0 4 5 6		
012456	8: write(y)	012456		

in(s)	S	out(s)	gen(s)	kill(s)
	0: max = 1000	0	0	
0	1: $x = 0$	0 1	1	5
0 1	2: y = 1	0 1 2	2	6
012456	3: if (y > max) goto 8	012456		
012456	4: $z = x + y$	012456	4	
012456	5: $x = y$	02456	5	1
02456	6: $y = z$	0 4 5 6	6	2
0 4 5 6	7: goto 3	0 4 5 6		
012456	8: write(y)	012456		