

Trace the following code segments. Assume all undeclared variables are initialized to zero. If an error would occur, explain it. If an infinite loop occurs, write "infinite loop".

1.

```
intNum = 1                                intNum                intSum  
  
While (intNum <= 5)  
    intSum = intSum + intNum  
    intNum = intNum + 1  
End While
```

2.

```
intNum = 9                                intNum                intSum  
intSum = 0  
  
While (intNum > 3 And intSum < 15)  
    intSum = intSum + intNum  
    intNum = intNum + 2  
End While
```

3.

```
intNum = 1                                intNum                intSum  
  
While (intSum < 100)  
    intSum = Math.Pow(2, intNum)  
    intNum = intNum + 1  
End While
```

4.

```
intSum = 29                                intNum                intSum  
  
While (intSum > 0)  
    intSum = intSum - intNum  
  
    If (intSum Mod 7 = 0)  
        Exit While  
    Else  
        intNum = intNum + 1  
    End If  
  
End While
```

5.

```
intNum                intSum  
  
While (intNum < 10)  
    intSum = intSum + intNum  
    intNum = intNum - 1  
End While
```