test

The INFDEV team

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```
1   interface ICounter {
2     void Incr(int diff);
3   }
4   class Counter : ICounter {
5     private int cnt;
6     public Counter() {
7       this.cnt = 0;
8     }
9     public void Incr(int diff) {
10      this.cnt = (this.cnt + diff);
11    }
12  }
13  ICounter c = new Counter();
14  c.Incr(5);
```

Stack:

PC
1

```
1  interface ICounter {
2    void Incr(int diff);
3  }
4  class Counter : ICounter {
5    private int cnt;
6    public Counter() {
7      this.cnt = 0;
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12 }
13 ICounter c = new Counter();
14 c.Incr(5);
```

Stack:

PC
13

Heap:

1
cnt=

```
1   interface ICounter {
2     void Incr(int diff);
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4   class Counter : ICounter {
5     private int cnt;
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```

Stack:

PC	...		PC	ret	this
13	...		7	null	ref 1

Heap:

1
cnt=

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1   interface ICounter {
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```

Stack:

PC	...		PC	ret
13	...		7	null

Heap:

1
cnt=0

```
1   interface ICounter {
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```

Stack:

PC	c
14	ref 1

Heap:

1
cnt=0

```
1  interface ICounter {
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12 }
13 ICounter c = new Counter();
14 c.Incr(5);
```

Stack:

PC	...		PC	ret	diff	this
14	...		10	null	5	ref 1

Heap:

1
cnt=0

```
1   interface ICounter {
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3   }
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13  ICounter c = new Counter();
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```

Stack:

PC	...		PC	ret
14	...		10	null

Heap:

1
cnt=5

```
1   interface ICounter {
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```

Stack:

PC	c
15	ref 1

Heap:

1
cnt=5

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1  interface ICounter {
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Declarations:

PC
1

```
1  interface ICounter {
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13 ICounter c = new Counter();
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```

Declarations:

PC
4

Classes:

ICounter
Incr=int → void

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1   interface ICounter {
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11    }
12  }
13  ICounter c = new Counter();
14  c.Incr(5);
```

Declarations:

PC	this
7	Counter

Classes:

Counter	ICounter
Counter=Counter → Counter	
Incr=(Counter×int) → void	Incr=int → void
cnt=int	

```
interface ICounter {
  void Incr(int diff);
}
class Counter : ICounter {
  private int cnt;
  public Counter() {
    this.cnt = 0;
  }
  public void Incr(int diff) {
    this.cnt = (this.cnt + diff);
  }
}
ICounter c = new Counter();
c.Incr(5);
```

Declarations:

PC	diff	this
9	int	Counter

Classes:

Counter	ICounter
Counter=Counter → Counter Incr=(Counter×int) → void cnt=int	Incr=int → void

```
1  interface ICounter {
2    void Incr(int diff);
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4  class Counter : ICounter {
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6    public Counter() {
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Declarations:

PC
13

Classes:

Counter	ICounter
Counter=Counter → Counter	
Incr=(Counter×int) → void	Incr=int → void
cnt=int	

```
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Declarations:

PC	c
14	Counter

Classes:

Counter	ICounter
Counter=Counter → Counter Incr=(Counter×int) → void cnt=int	Incr=int → void

```
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12  }
13  ICounter c = new Counter();
14  c.Incr(5);
```

Declarations:

c		PC	ret	arg_1	this
Counter		14	null	int	Counter

Classes:

Counter		ICounter
Counter=Counter → Counter Incr=(Counter×int) → void cnt=int		Incr=int → void

```
1  interface ICounter {
2    void Incr(int diff);
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```

Declarations:

c		PC	ret	arg_1	this
Counter		14	void	int	Counter

Classes:

Counter			ICounter	
Counter=Counter → Counter				
Incr=(Counter×int) → void			Incr=int → void	
cnt=int				

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```

Declarations:

PC	c
15	Counter

Classes:

Counter	ICounter
Counter=Counter $\rightarrow$ Counter Incr=(Counter$\times$int) $\rightarrow$ void cnt=int	Incr=int $\rightarrow$ void

The best of luck, and thanks for the attention!