

Recursive Factorial Demo

```
public class Factorial {  
    public static int fact(int n) {  
        if (n == 0) return 1;  
        else return n * fact(n-1);  
    }  
  
    public static void main(String[] args) {  
        System.out.println(fact(3));  
    }  
}
```

n = 3

environment

fact(3)

```
static int fact(int n) {  
    if (n == 0) return 1;  
    else return n * fact(n-1);  
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fact(3)

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static int fact(int n) {  
    if (n == 0) return 1;  
    else return n * fact(n-1);  
}
```

n = 2

environment

fact(2)

```
static int fact(int n) {  
    if (n == 0) return 1;  
    else return n * fact(n-1);  
}
```

n = 3

environment

fact(3)

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n = 1

environment

fact(1)

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static int fact(int n) {  
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}
```


n = 3

environment

fact(3)

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static int fact(int n) {  
    if (n == 0) return 1;  
    else return n * fact(n-1);  
}
```

n = 2

environment

fact(2)

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static int fact(int n) {  
    if (n == 0) return 1;  
    else return n * fact(n-1);  
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n = 1

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fact(1)

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static int fact(int n) {  
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n = 3

environment

fact(3)

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static int fact(int n) {  
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```

n = 2

environment

fact(2)

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static int fact(int n) {  
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}
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n = 1

environment

fact(1)

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}
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n = 3

environment

fact(3)

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static int fact(int n) {  
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}
```

n = 2

environment

fact(2)

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static int fact(int n) {  
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}
```

n = 1

environment

fact(1)

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static int fact(int n) {  
    if (n == 0) return 1;  
    else return n * fact(n-1);  
}
```

n = 0

environment

fact(0)

```
static int fact(int n) {  
    if (n == 0) return 1;  
    else return n * fact(n-1);  
}
```

n = 3

environment

fact(3)

```
static int fact(int n) {  
    if (n == 0) return 1;  
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}
```

n = 2

environment

fact(2)

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static int fact(int n) {  
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}
```

n = 1

environment

fact(1)

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n = 0

environment

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n = 1
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n = 0
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n = 3
environment

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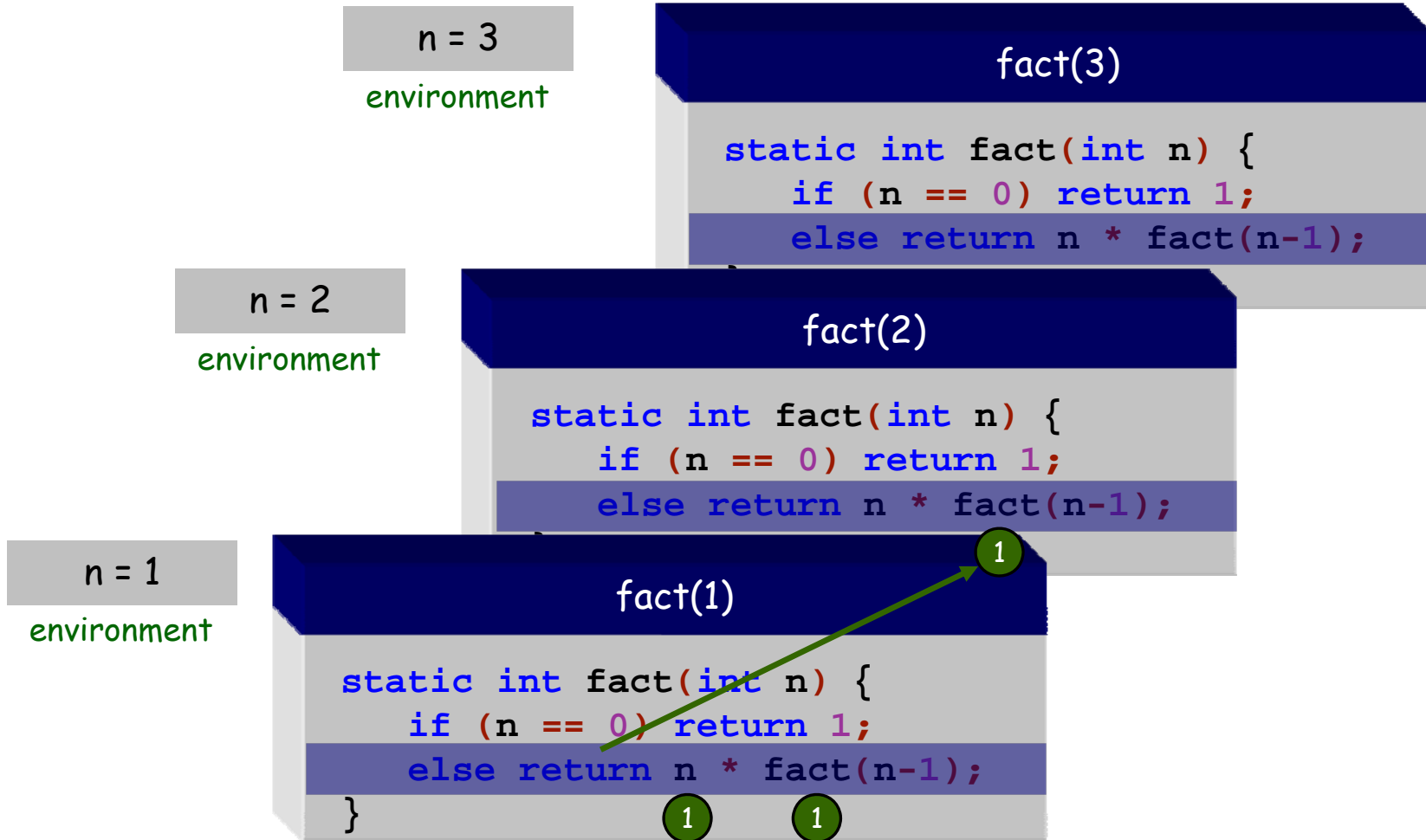
n = 2
environment

```
fact(2)  
  
static int fact(int n) {  
    if (n == 0) return 1;  
    else return n * fact(n-1);  
}
```

n = 1
environment

```
fact(1)  
  
static int fact(int n) {  
    if (n == 0) return 1;  
    else return n * fact(n-1);  
}
```

1 1



n = 3
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    }

    public static void main(String[] args) {
        System.out.println(fact(3));
    }
}
```

6

```
% java Factorial
6
```