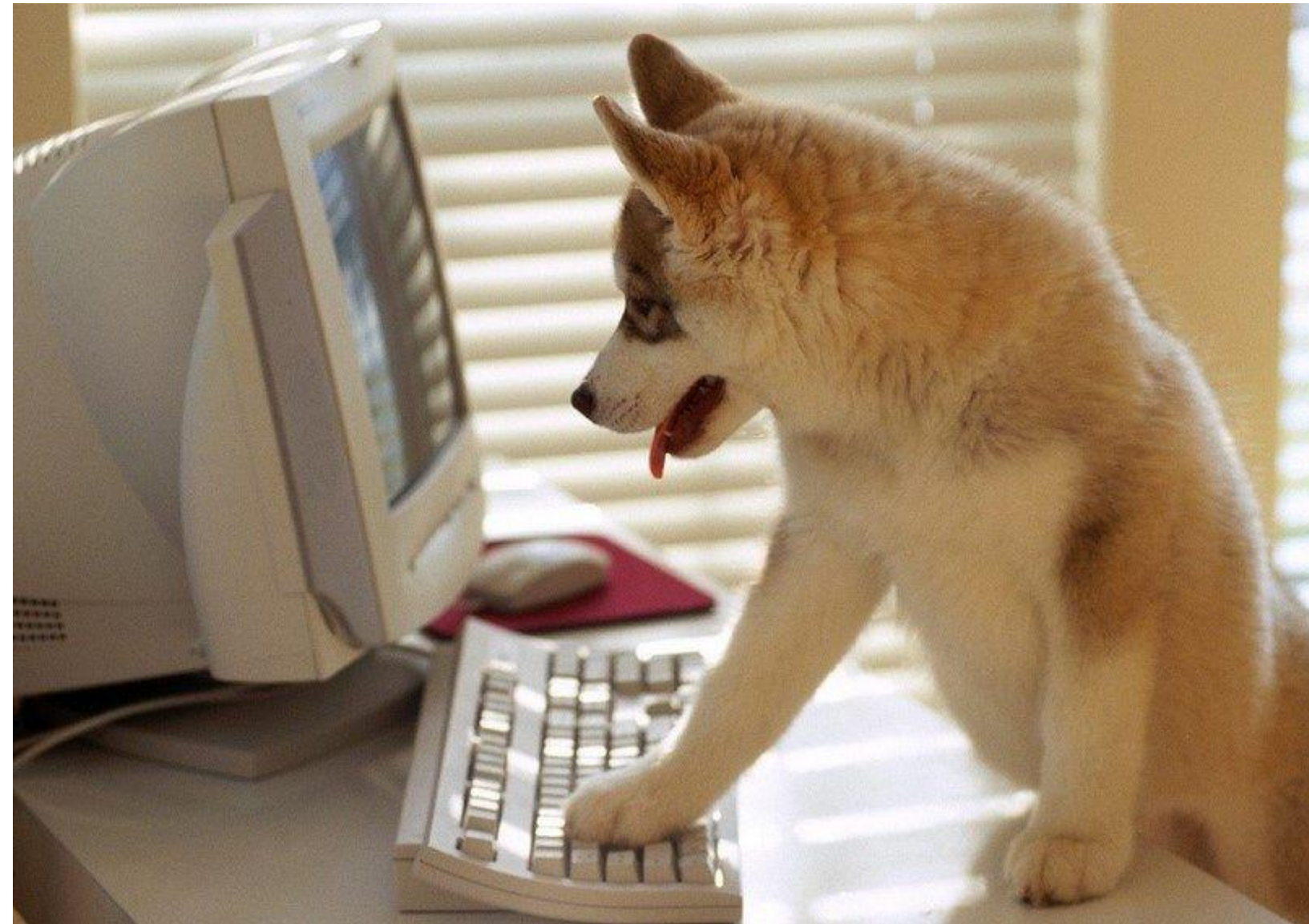


Java Programming [Basics]



Recursion

Something defined by itself

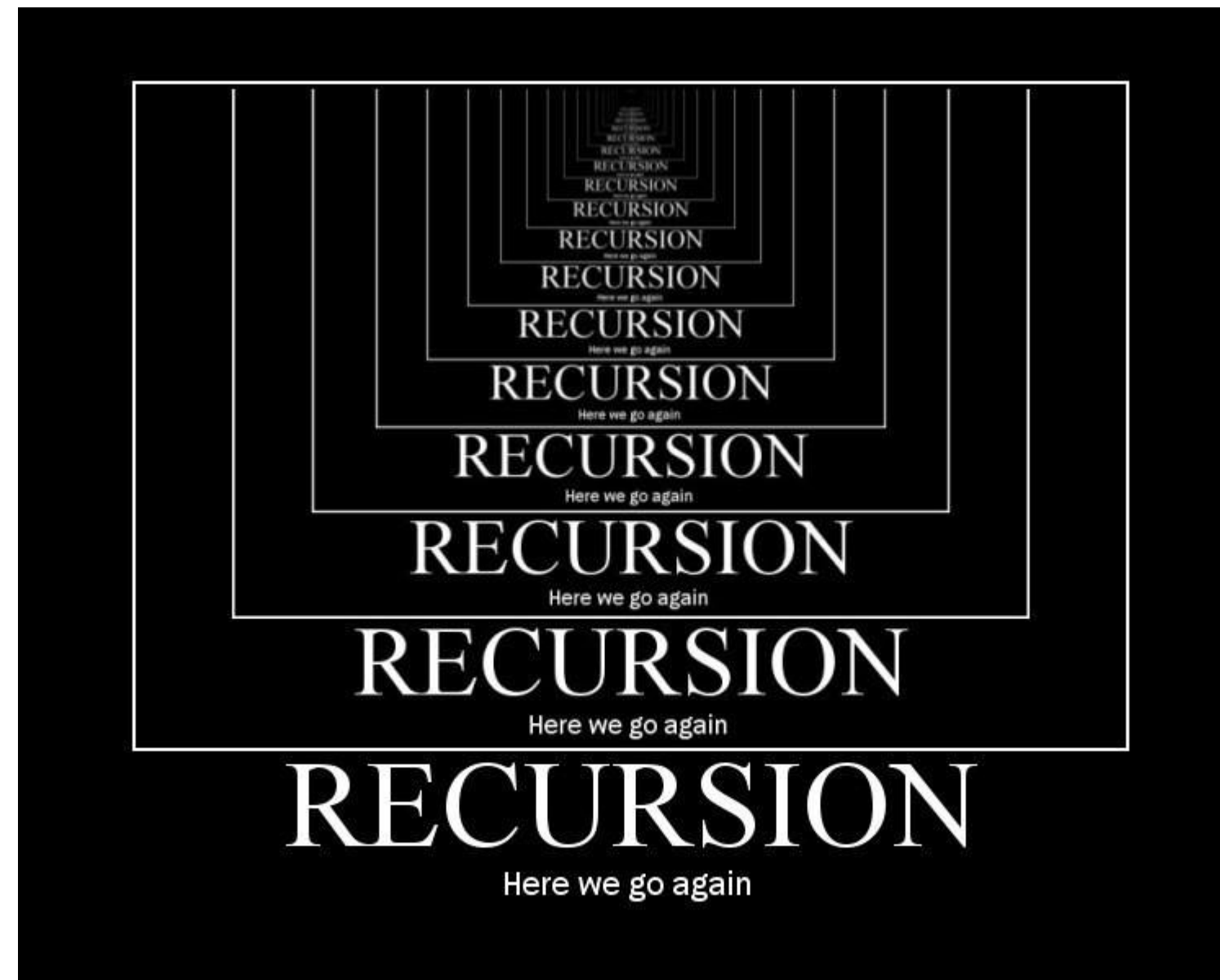


Image: https://cdn-images-1.medium.com/max/1600/1*appBwh6_RtvocVxwqpplHA.jpeg

Recursion

```
public static int rekExample(int x) {  
    if(x<1) {  
        return x;  
    }  
    else {  
        System.out.println("Recursion is fun!");  
        return rekExample(x-1);  
    }  
}
```

Recursion

```
public static int rekExample(int x) {    //x=3
    if(x<1){
        return x;
    }
    else{
        System.out.println("Recursion is fun!");
        return rekExample(x-1);
    }
}
```

Recursion

```
public static int rekExample(int x) { //x=3
    if(x<1){
        return x;
    }
    else{
        System.out.println("Recursion is fun!");
        return rekExample(x-1);
    }
}
```

Recursion is fun!

Recursion

```
public static int rekExample(int x) { //x=3
    if(x<1){
        return x;
    }
    else{
        System.out.println("Recursion is fun!");
        return rekExample(x-1); //x=2
    }
}
```

Recursion is fun!

Recursion

```
public static int rekExample(int x) { //x=2
    if(x<1){
        return x;
    }
    else{
        System.out.println("Recursion is fun!");
        return rekExample(x-1); //x=2
    }
}
```

Recursion is fun!

Recursion

```
public static int rekExample(int x) { //x=2
    if(x<1){
        return x;
    }
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        return rekExample(x-1); //x=2
    }
}
```

Recursion is fun!
Recursion is fun!

Recursion

```
public static int rekExample(int x) { //x=2
    if(x<1){
        return x;
    }
    else{
        System.out.println("Recursion is fun!");
        return rekExample(x-1); //x=1
    }
}
```

Recursion is fun!
Recursion is fun!

Recursion

```
public static int rekExample(int x) {    //x=1
    if(x<1){
        return x;
    }
    else{
        System.out.println("Recursion is fun!");
        return rekExample(x-1);    //x=1
    }
}
```

Recursion is fun!
Recursion is fun!

Recursion

```
public static int rekExample(int x) {    //x=1
    if(x<1){
        return x;
    }
    else{
        System.out.println("Recursion is fun!");
        return rekExample(x-1);    //x=1
    }
}
```

Recursion is fun!
Recursion is fun!
Recursion is fun!

Recursion

```
public static int rekExample(int x) { //x=1
    if(x<1){
        return x;
    }
    else{
        System.out.println("Recursion is fun!");
        return rekExample(x-1); //x=0
    }
}
```

Recursion is fun!
Recursion is fun!
Recursion is fun!

Recursion

```
public static int rekExample(int x) { //x=0
    if(x<1){
        return x;
    }
    else{
        System.out.println("Recursion is fun!");
        return rekExample(x-1); //x=0
    }
}
```

Recursion is fun!
Recursion is fun!
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Recursion

```
public static int rekExample(int x) { //x=0
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    }
    else{
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        return rekExample(x-1); //x=0
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```

Recursion is fun!
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Recursion

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}
```

Recursion

Today's Assignment:

<https://classroom.github.com/a/AuLd8FGt>

