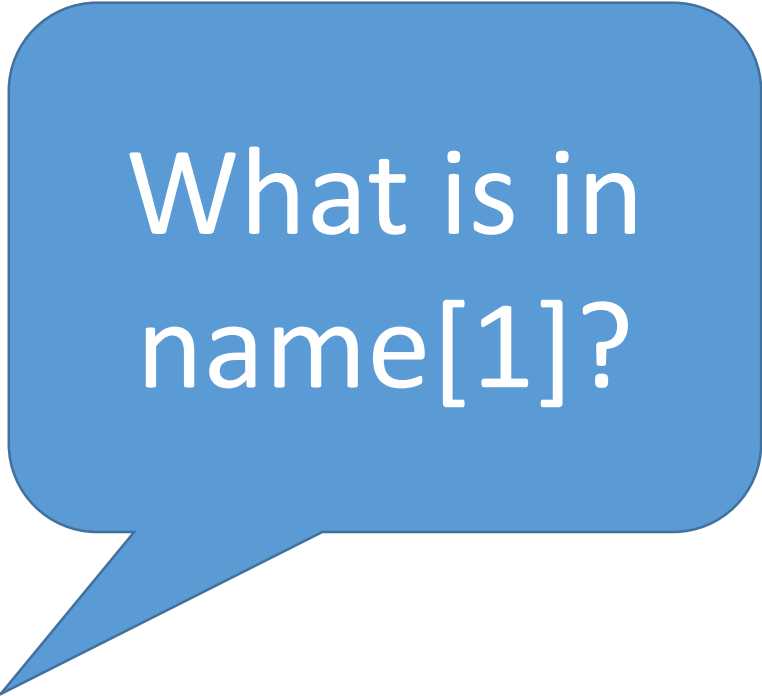


# Printing Out Arrays

Sheet 5.2

```
String name[] = {"cat", "dog", "bird", "hamster"};
```



What is in  
name[1]?

```
String name[] = {"cat", "dog", "bird", "hamster"};
```

What is in  
name[1]?

dog

```
String name[] = {"cat", "dog", "bird", "hamster"};
```


What is the value  
of name.length?

```
String name[]= {"cat", "dog", "bird", "hamster"};
```

What is the value  
of name.length?

4

```
int amt[]= {23, 34, 54, 67};  
String name[]= {"cat", "dog", "bird", "hamster"};
```



How many  
dogs are  
there?

```
int amt[]= {23, 34, 54, 67};  
String name[]= {"cat", "dog", "bird", "hamster"};
```

How many  
dogs are  
there?

Apparently  
34.

```
int amt[] = {23, 34, 54, 67};  
String name[] = {"cat", "dog", "bird", "hamster"};
```



There are 67  
of which  
animal?



```
int amt[]= {23, 34, 54, 67};  
String name[]= {"cat", "dog", "bird", "hamster"};
```

Hamsters.  
That's a lot.



There are 67  
of which  
animal?

```
String name[]= {"cat", "dog", "bird", "hamster"};
```

Match the code to the output.

A

```
for(int i=0; i<name.length; i++)  
System.out.println(name[i]);
```

1

```
cat dog bird hamster
```

B

```
for(int i=0; i<name.length; i++)  
System.out.print(name[i]+" ");
```

2

```
cat  
dog  
bird  
hamster
```

```
String name[]= {"cat", "dog", "bird", "hamster"};
```

Match the code to the output.

A

```
for(int i=0; i<name.length; i++)  
System.out.println(name[i]);
```

1

```
cat dog bird hamster
```

B

```
for(int i=0; i<name.length; i++)  
System.out.print(name[i]+" ");
```

2

```
cat  
dog  
bird  
hamster
```

23  
34  
54  
67

Suppose that you want to produce this output. Fill in the code to print it out.

```
int amt[] = {23, 34, 54, 67};  
for(int i=0; i<____.length; i++)  
    System.out.____(____[i]);
```

23  
34  
54  
67

Suppose that you want to produce this output. Fill in the code to print it out.

```
int amt[] = {23, 34, 54, 67};  
for(int i=0; i < amt.length; i++)  
    System.out.print(amt[i]);
```

cat	23
dog	34
bird	54
hamster	67

Suppose that you want to produce this output. Fill in the code to print it out.

```
int amt[]= {23, 34, 54, 67};  
String name[]= {"cat", "dog", "bird", "hamster"};  
  
for(int i=0; i<_____.length; i++)  
    System.out.println(_____ [i]+ "\t" + _____ [i]);
```

cat	23
dog	34
bird	54
hamster	67

Suppose that you want to produce this output. Fill in the code to print it out.

```
int amt[] = {23, 34, 54, 67};  
String name[] = {"cat", "dog", "bird", "hamster"};  
  
for(int i=0; i< amt.length; i++)  
    System.out.println(name[i] + "\t" + amt[i]);
```

```
animal  amount
=====
cat     23
dog     34
bird    54
hamster 67
```

To add titles, these 2 lines must be added to the code. Mark the place they must be added with an 'x'

```
System.out.println("animal\tamount");
System.out.println("=====");
```

```
for(int i=0; i<name.length; i++) {
```

```
    System.out.println(name[i]+" \t"+amt[i]);
```

```
}
```





```
animal    amount
=====
cat       23
dog       34
bird      54
hamster   67
```

To add titles, these 2 lines must be added to the code. Mark the place they must be added with an 'x'

```
System.out.println("animal\tamount");
System.out.println("=====");
```



```
for(int i=0; i<name.length; i++) {
```

```
    System.out.println(name[i]+" \t"+amt[i]);
```

```
}
```



How many cats? There are 23.  
How many dogs? There are 34.  
How many birds? There are 54.  
How many hamsters? There are 67.

Suppose that you want to produce this output. Fill in the code to print it out.

```
int amt[]= {23, 34, 54, 67};  
String name[]= {"cat", "dog", "bird", "hamster"};  
  
for(int i=0; i<name.length; i++)  
    System.out.println("_____"+_____+[i]+"_____"+_____+[i]+"_");
```



How many cats? There are 23.  
How many dogs? There are 34.  
How many birds? There are 54.  
How many hamsters? There are 67.

Suppose that you want to produce this output. Fill in the code to print it out.

```
int amt[]= {23, 34, 54, 67};  
String name[]= {"cat", "dog", "bird", "hamster"};  
  
for(int i=0; i<name.length; i++)  
    System.out.println( "How many " + name[i] + "s? There are " + amt[i] + ." );
```





Alter the loop so that it prints every second name

```
for(int i=0; i<name.length; i++)  
    System.out.println(name[i]);
```

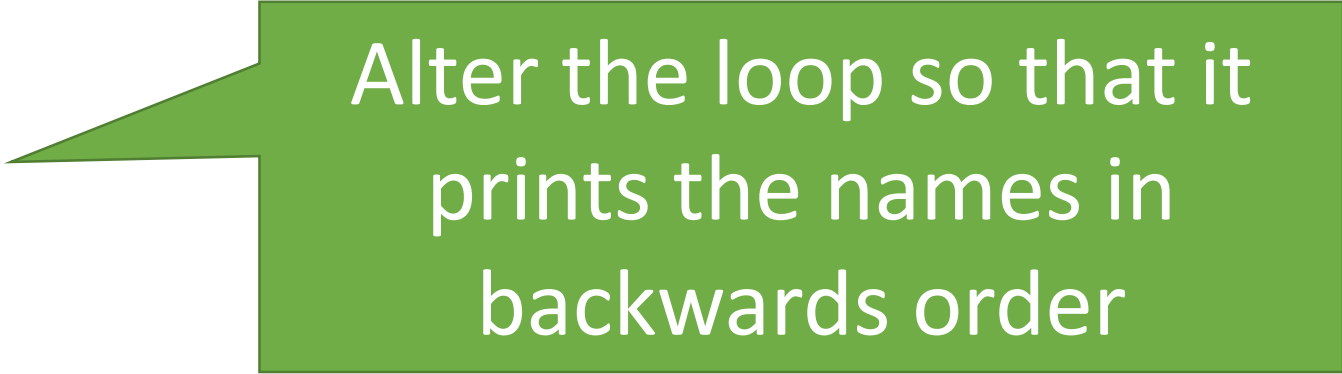


Alter the loop so that it prints every second name

```
for(int i=0; i<name.length; i++)  
    System.out.println(name[i]);
```

i+=2

A green arrow points downwards from the text 'i+=2' to the 'i++' in the code above.



Alter the loop so that it  
prints the names in  
backwards order

```
for(int i=0; i<name.length; i++)  
    System.out.println(name[i]);
```

The loop in  
backwards order.

Note  
direction

```
for(int i=name.length-1; i>=0; i--)  
    System.out.println(name[i]);
```