

Draw the arrays and fill them with values:

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```
int numbers [] = new int[4];
int y=2;
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```
nums[0]=34;
nums[1]=12;
nums[y]=2;
nums[y+1]=y+1;
```

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```
int nums [] = new int[6];
int x=3;
```

```
nums[2]=12;
nums[x]=x;
nums[1]=nums[2];
nums[3-x]=nums[x]+1;
nums[x+1]=nums[x];
nums[x+2]=nums[x];
```

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```
int values [][] = new int[3][2];
int x=3;
int y=2;
```

```
values[0][1]=23;
values[1][1]=12;
values[x-1][y-1]=x;
values[x-2][y-y]=x+y;
values[y][x-x]=x-y;
values[x-y-1][y-y]=0;
```

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```
int values [][] = new int[4][3];
int x=2;
int y=1;
```

```
values[x][y]=13;
values[x][y+y]=92;
values[x-1][y-1]=x;
values[x][x-y]=x+y;
values[y][y]=x-y;
values[x][x]=88;
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```
int numbers [] = new int[5];
int x=3;

for (int i=0; i<=4; i=i+1)
{numbers[i]=5;}

numbers[x]=34;
numbers[x-1]=numbers[numbers[x]-33];
```

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```
int values [] = new int[4];
int x=0;

for (int i=0; i<=3; i=i+1)
{values[i]=i;}

values[0]=12;
values[x+3]=values[0];
```

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```
int nums [] = new int[5];
int x=4;

for (int i=0; i<=3; i=i+1)
{values[i]=i+10;}
```

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```
int numbers [] = new int[6];
int x=2;

for (int i=5; i>=0; i=i-1)
{values[i]=i*i;}
```

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```
int numbers [] = new int[6];
int x=2;

for (int i=20; i>=15; i=i-1)
{values[i-15]=i+2;}
```

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```
int values [][] = new int[3][3];

for (int i=0; i<=2; i=i+1)
{values[i][2]=3;}

for (int i=0; i<=2; i=i+1)
{values[i][1]=22;}

for (int i=0; i<=2; i=i+1)
{values[i][i-i]=7;}
```

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How many times will the word "hello" be outputted to the screen?

<pre>for (int i=0; i&lt;=5; i=i+1) {sout ("hello");}</pre>	<pre>for (int i=11; i&lt;=15; i=i+1) {sout ("hello");}</pre>
<pre>for (int i=20; i&lt;=15; i=i-1) {sout ("hello");}</pre>	<pre>for (int i=100; i&gt;=25; i=i-25) {sout ("hello");}</pre>
<pre>int x=2;  while (x&lt;=6) { sout ("hello"); x=x+1; }</pre>	<pre>int counter=10;  while (counter&lt;=16) { sout ("hello"); counter = counter + 2; }</pre>

Indicate the code necessary to fill the following arrays (hint: use a for loop):

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13
14
15
16

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0
1
8
27

Indicate the output after the following programs have run:

```
int values [] = new int[6];
int a=3;

for (int i=0; i<=5; i=i+1)
{values[i]=i+i;}

for (int i=2; i<=4; i=i+1)
{System.out.println(values[i]);}
```


```
String word;
int x=5;

word = "java programming";

System.out.println(word.length());
System.out.println(word.charAt(4));
System.out.println(word.charAt(x));
System.out.println(word.toUpperCase());
System.out.println(word.replace ("a", "x"));
```



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```
String word1, word2;
int x=6;

word1 = "dog";
word2 = "gorrila";

System.out.println(word1.length()+word2.length());
System.out.println(word1.indexOf("o"));
System.out.println(word2.indexOf("r"));

if (word1.equals(word2))
{System.out.println("SAME WORD!");}
else
{System.out.println("DEF NOT!");}

if (word2.startsWith("d"))
{System.out.println("IT DOES!");}
else
{System.out.println("IT DOES NOT!");}

word1 = word1.replace("o", "i");
System.out.println(word1);
```

