

A Loop
customized
for Arrays!

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Java

New Idea: The Enhanced *for* loop

- So far, we have used *while* loops to do repeated operations
- There are other types of loops
- The enhanced *for* loop was designed by Java developers to make it **EASY** to traverse arrays.
- traversals are visiting each element of the array.

New Idea: The Enhanced *for* loop

Make an array of random ints:

```
int[] num = new int[10];  
int c = 0;  
while(c < num.length)  
{  
    num[c] = Canvas.rand(100);  
    c = c + 1;  
}
```

New Idea: The Enhanced *for* loop

output array values:

```
c = 0;  
while(c < num.length)  
{  
    System.out.print(num[c] + " ");  
    c = c + 1;  
}
```

New Idea: The Enhanced *for* loop

```
for(int fred: num)
{
    System.out.println(fred);
}
```

No *c* variable required!

Lab

- Make 100 Rectangles
- dimension:
 - width = 50
 - height = 100
- place each at a random x, y location
- fill each Rectangle with a random color
- use an enhanced for loop to print out the y coordinate for each Rectangle