

INTRO TO COMPUTER SCIENCE

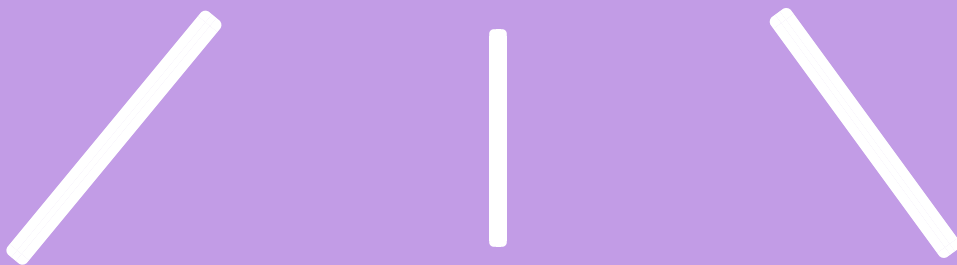


Module 2 : Loops and Arrays



FOR LOOPS

```
for (int i = 0; i < 10; i++) { }
```



STARTING POINT

BOUNDARY
CONDITION

INCREMENTATION



WHILE LOOPS



STARTING POINT



```
int i = 0;
```

BOUNDARY CONDITION



```
while (i < 10) {
```

INCREMENT



```
    i++;  
}
```

BOOLEAN COMPARISONS

When to use for loops:

- you know how many times you want to iterate
- you want to iterate through an array

When to use while loops:

- you do not know how many times you want to iterate
- you want to run an infinite loop

ARRAYS

CREATING A NEW ARRAY

```
int[ ] arr = new int[array size];
```

GETTING THE SIZE OF AN ARRAY

```
int size = arr.length
```

ITERATING THROUGH AN ARRAY AND PRINT ALL VALUES

```
for (int i =0; i < arr.size; i++) {  
    System.out.println(arr[i]);  
}
```