



Lab 02: For Loops

In this lab you will be using exclusively for loops.

Exercises

You may ONLY use for loops for this lab.

- 1) Use a for loop to print the following

```
3 6 9 12 15 18 21
```

- 2) Ask the user for a positive integer. Then using a for loop(s), print all multiples of two from the input down to $-1 * \text{that input}$.

```
Enter a positive integer: 6  
6 4 2 0 -2 -4 -6
```

- 3) Ask the user for a positive integer. Then using a for loop(s), print all factors of that number.

```
Enter a positive integer: 18  
1 2 3 6 9 18
```

- 4) Ask the user for a positive integer. Then using a for loop(s), determine if that number is prime.

```
Enter a positive integer: 11  
That number is prime
```

```
Enter a positive integer: 18  
That number is not prime
```

- 5) Ask the user for a positive integer. Then using a for loop(s), list all prime number less that the input.

```
Enter a positive integer: 25  
2 3 5 7 11 13 17 19 23
```

