

Writing Java Programs

Goal: Create a Java program that determines which integer is the largest of three integers entered by a user.

What you need

- Computer with an IDE installed or
- IDE (Integrated development environment) for Java. Typical ones include NetBeans and Eclipse
Netbeans: <https://netbeans.org/features/index.html>
Eclipse: <https://www.eclipse.org/downloads/>

Project

Write out on paper a program that solves the above problem. You can write it in sentence format or use a flowchart method -- either way is acceptable.

A few questions to consider when writing your program:

- What steps or decisions need to be made to determine which integers are the largest?
- How many variables do you need to create?
- What if the user enters the same number three times?
- What if they enter too few or too many numbers?

One Step Further

Once you have created and compiled a working program that determines the largest of three integers, consider a new challenge.

What if you wanted to know the largest integer from a list of 50 or a 100? Would your program work efficiently? What if you used an [array](#)?

What if you wanted to know the smallest entered number instead of the largest? What changes would be required.

```
public int square(int x) {  
    return x*x;  
}  
public static void main (String[] args) {  
    int n = 50;  
    for (int i = 0; i < args.length; i++) {  
        System.out.println("The largest integer is " + square(Integer.parseInt(args[i])));  
    }  
}
```