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CS161 – Assignment #3/Quiz #5
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- **Q1: Write the pseudocode for what you would do to prevent these errors from occurring in your program, i.e. handle the errors before they cause a logic or runtime error?**

- **Arithmetic Overflow**

This one is hard. Assuming you know the types of variables at play (long, int, double, etc) then you could check the result against the MAX_VALUE.

Let's assume they are ints.

Int a;

Int b;

<stuff happens to change a and b>

Int c = a*b

If (c < absolute value of a or c < absolute value of b), then it overflowed. C wrapped around and became smaller than one of the operands.

- **Divide by zero**

Assume variables a and b.

Try:
result = a / b

Catch (ArithmeticException):
print "you can't do that!"