```
// Some useful data types
public class DataTypes
 public static void main(String [ ] args)
       // integers are whole numbers up to 9 digits plus
      int i = -2147483648;
       System.out.println("i: " + i);
       // longs are integers in a wider range
       // long j = 64738295748374657; // BlueJ compiler chokes on long constants
       // System.out.println("j: " + j);
       // floats are real numbers in a useful range
       // float f = 32.54;
                                        // BlueJ compiler hates floats
       // System.out.println("f: " + f);
       // A double is a real number in a very wide range
       double d = -103.325;
       System.out.println("d: " + d);
       d = 658390872.23435674;
       System.out.println("d: " + d); // prints is scientific notation
       // Strings are words or phrases in double-quotes
       String s = "EMU was founded in 1849."; // note the uppercase S in String
       System.out.println("s: " + s);
       // A char is a single character
       char c = 'A';
                                       // single quotes around single character
       System.out.println("'A': " + c);
       c = 65;
                                        // code for 'A' (codes are all >= 0)
       System.out.println("char for code value 65: " + c);
       // boolean type is for logic values, true and false
       // (mainly used in logical tests such as in "if" statements)
       boolean b = true;
       System.out.println("b: " + b); // you rarely print these
   }
}
======== Sample Run ==============
i: -2147483648
d: -103.325
d: 6.583908722343568E8
s: EMU was founded in 1849.
'A': A
char for code value 65: A
b: true
```