1. (2 points) Circle **ALL** of the following blocks of code which will cause a syntax error.

   A. double a = 4.5;
      double a = 3;
   
   B. double a = 4.5;
      double b = 3;
   
   C. int a = 4.5;
      double b = 3;
   
   D. double a = 4.5;
      int b = 3;
   
   E. double d = 14.5;
      d = 5.6;
   
   F. byte b = 8;
      int c = b;

Solution: Correct answers: A, C

2. (10 points) Consider the following variable declarations and initializations:

   int a = 65;
   char b = 'Z';
   String c = "9";

For each of the following statements, indicate whether or not the statement contains a syntactic error. If it does, correct the statement (there may be multiple ways to correct it) **without** changing the datatype of the variable x. Then evaluate either the original, correct statement or the corrected statement and indicate what value would be stored in the variable x.

<table>
<thead>
<tr>
<th>Statement</th>
<th>Error?</th>
<th>Corrected Statement</th>
<th>Value of x</th>
</tr>
</thead>
<tbody>
<tr>
<td>char x = (char)a;</td>
<td>N</td>
<td>-</td>
<td>A</td>
</tr>
<tr>
<td>int x = a + 5;</td>
<td>N</td>
<td>-</td>
<td>70</td>
</tr>
<tr>
<td>char x = a + 5;</td>
<td>Y</td>
<td>char x = (char)(a+5);</td>
<td>'F'</td>
</tr>
<tr>
<td>String x = c + b + a;</td>
<td>N</td>
<td>-</td>
<td>&quot;9Q65&quot;</td>
</tr>
<tr>
<td>int x = b * 2;</td>
<td>N</td>
<td>-</td>
<td>180</td>
</tr>
</tbody>
</table>
3. (3 points) The following image is a screenshot of the `SimpleTimeZone` class documentation from the Java API demonstrated in class. Answer the following questions based on this method header.

```
int getOffset(int era, int year, int month, int day, int dayOfWeek, int millis)

Retrieves the difference in milliseconds between local time and UTC, taking into account both the raw offset and the effect of daylight saving, for the specified date and time.
```

(a) What is the method name?

**Solution:** `getOffset`

(b) How many input parameters does this function require? What type(s) are it/they?

**Solution:** 5, all ints

(c) How many return values does this function return? What type(s) are it/they?

**Solution:** 1, int