CPE 102 Pre-midterm Worksheet

Assume the following interfaces and classes exist, are correct, and have the relationships declared below:

And the following references have been declared and initialized to something valid but not shown:

```
A a = new...;
B b = new...;
C c = new...;
D d = new...;
E e = new...;
```

And, among other things, that:

```
The interface B specifies the method public void methodB()
The class C implements the method public void methodC()
The class D implements the method public void methodD(D other)
```

Now, in the column to the right of each code fragment below, write **A, S,** or **DNC** as follows:

A if the fragment would *always compile* <u>and</u> run without exception. **S** if the fragment would always compile <u>but</u> *sometimes* results in an exception at runtime. **DNC** if the fragment *does not compile*.

Code Fragment	A, S, or DNC?
<pre>d.methodD((D)b);</pre>	
d = a;	
b = new E();	
b = (D)c;	
b.methodD(d);	
((D)b).methodD(d);	
a = c;	
b.methodB();	
b = new B();	
e.methodB();	