Exercise 1.7 Subtleties of foo = bah and foo := @(bah)

```
{a,b,c,d,e,f,h#}::Indices.
    foo := B_{b} A_{a}.
     bah := A_{a} C_{c}.
     # cdbBeg(print.0107)
     print("foo = "+str(foo))
     print("bah = "+str(bah)+"\n")
     print("type foo = "+str(type(foo)))
10
     print("type bah = "+str(type(bah))+"\n")
12
     print("id foo = "+str(id(foo)))
     print("id bah = "+str(id(bah))+"\n")
15
     bah = foo
16
17
     print("foo = "+str(foo))
     print("bah = "+str(bah)+"\n")
     sort_product (foo)
21
22
     print("bah = "+str(bah)+"\n")
23
     print("id foo = "+str(id(foo)))
     print("id bah = "+str(id(bah))+"\n")
26
27
     bah := @(foo).
28
29
     print("id foo = "+str(id(foo)))
     print("id bah = "+str(id(bah))+"\n")
31
     # cdbEnd(print.0107)
```

```
foo = B_{b} A_{a}
bah = A_{a} C_{c}

type foo = <class 'cadabra2.Ex'>
type bah = <class 'cadabra2.Ex'>

id foo = 4396899048
id bah = 4396899104

foo = B_{b} A_{a}
bah = B_{b} A_{a}

bah = A_{a} B_{b}

id foo = 4396899048
id bah = 4396899048
id bah = 4396899048
id bah = 4396899048
id bah = 4396899048
id foo = 4396899048
id bah = 4397031696
```

Note that the line numbers referenced in the following are those of the output above not those of the Cadabra source.

- Lines 7 and 8 show that the objects foo and bah point to distinct areas of memeory (i.e., they point to different objects).
- Lines 10 and 11 show the result of the statement bah = foo.
- Line 13 shows that bah has changed after the statement sort_product (foo).
- Lines 15 and 16 verifies that foo and bah point to the same object (so changes in foo will be seen by bah, as just noted).
- Lines 18 and 19 shows that after bah := @(foo) the symbols bah and foo no longer point to the same object.