```
PROGRAM
num x = 2.5, y = 2.5, z;
z = x * y ;

/*txt somet = "hello **=-- World!!!!!!!!!!!!!!!!!!!";
print("helo  " + "...!!!!!" + "#arar32q .");
print(somet);*/
print(z);

Property BioBrickID(txt);
Property Sequence(txt);
Property someprop2(txt);
Property RelativeStrength(num);
Property someList(txt[]);

txt[] a = ["1", "2", "3"], b = ["a", "b", "c"], d;
num[] n = [1, 2, 3], n2 = [4, 5, 6];

print("a: ", a);
print("b: ", b);
print("n: ", n);
print("x: ", x, " y: ", y, " z: ", z);

Component customP(BioBrickID, Sequence, someList);
customP.addProperties(RelativeStrength);
customP cp("ABCD", "1234",["af", "afa", "afa"], 560);
customP cp2(.Sequence("GCCC"), .someList(["af", "afa", "afa"]));
print("cp2.Sequence: ", cp2.Sequence);
print("cp2.someList: " , cp2.someList);

print("cp.BioBrickID: ",cp.BioBrickID);
print("cp.RelativeStrength: ", cp.RelativeStrength);
print("cp.someList: ", cp.someList);

Component Promoter(Sequence, BioBrickID);
Component RBS();
RBS.addProperties(Sequence);
RBS rs();
rs.Sequence = "GGGGGG";
print("rs.Sequence: " , rs.Sequence);

Image(Promoter, "cafaf");
Promoter p("GCTA", "BBa_435");
Image(p, "afaffafdfaff");
```

```
Promoter p2(.BioBrickID("ABCD"));
print("p.Sequence: ", p.Sequence);
print("p.BioBrickID: ", p.BioBrickID);

Device d = {cp, p, cp};
Device d2 = {d, d, p, d, p2};
print("d.Sequence: " , d.Sequence);
print("d2.Sequence, where p2 has no sequence: " , d2.Sequence);
```

Output:

```
6.25
a: [1, 2, 3]
b: [a, b, c]
n: [1.0, 2.0, 3.0]
x: 2.5 y: 2.5 z: 6.25
cp2.Sequence: GCCC
cp2.someList: [af, afa, afa]
cp.BioBrickID: ABCD
cp.RelativeStrength: 560.0
cp.someList: [af, afa, afa]
rs.Sequence: GGGGGG
p.Sequence: GCTA
p.BioBrickID: BBa_435
d.Sequence: [1234, GCTA, 1234]
d2.Sequence, where p2 has no sequence: [1234, GCTA, 1234, 1234, GCTA,
1234, 1234, GCTA, 1234, GCTA, 1234, GCTA, 1234, ]
```

----------works

```
PROGRAM
Property someprop(txt);
Property someprop2(txt);
Property RelativeStrength(num);

Part customP(BioBrickID, Sequence);
customP.addProperties(RelativeStrength);
customP cp(ABCD, 1234, 560);
print(cp.BioBrickID);
print(cp.RelativeStrength);

Promoter p(GCTA, BBa_435);
```

```
print(p.Sequence);
print(p.BioBrickID);


output:
ABCD
560.0
BBa_435
GCTA


------------------------------works

PROGRAM
Property someprop(txt);
Property someprop2(txt);
Property RelativeStrength(num);

Part customP(BioBrickID, Sequence);
customP.addProperties(RelativeStrength);
customP cp(ABCD, 1234);
print(cp.BioBrickID);
print(cp.RelativeStrength);

Promoter p(GCTA, BBa_435);
print(p.Sequence);
print(p.BioBrickID);


output:
ABCD
0.0
BBa_435
GCTA
------------------------------works
PROGRAM
Property someprop(txt);
Property someprop2(txt);
Property RelativeStrength(num);

Part customP(BioBrickID, Sequence);
Promoter p(GCTA, BBa_435);
customP.addProperties(RelativeStrength);
customP cp(ABCD, 1234, 560);
```

```
print(cp.BioBrickID);
//customP cp(560);
print(cp.RelativeStrength);

print(p.Sequence);
print(p.BioBrickID);
```

output:
ABCD
560.0
BBa_435
GCTA

----------works

```
PROGRAM
Property someprop(txt);
Property someprop2(txt);
Property RelativeStrength(num);

Part customP(BioBrickID, Sequence);
Promoter p(GCTA, BBa_435);
//customP.addProperties(RelativeStrength);
customP cp(ABCD, 1234);
print(cp.BioBrickID);
//customP cp(560);
//print(cp.RelativeStrength);

print(p.Sequence);
print(p.BioBrickID);
```

output:
ABCD
BBa_435
GCTA

----------works after revamp, with Device

```
PROGRAM
Property BioBrickID(txt);
Property Sequence(txt);
Property someprop2(txt);
Property RelativeStrength(num);
Property someList(txt[]);
```

```
Component customP(BioBrickID, Sequence, someList);
customP.addProperties(RelativeStrength);
customP cp("ABCD", "1234",("af", "afa", "afa"), 560);
print(cp.BioBrickID);
print(cp.RelativeStrength);
print(cp.someList);

Component Promoter(Sequence, BioBrickID);
Promoter p("GCTA", "BBa_435");
print(p.Sequence);
print(p.BioBrickID);

Device d = {cp, p, cp};
Device d2 = {d, d, p, d};
print(d.Sequence);
print(d2.Sequence);

output:
ABCD
560.0
[af, afa, afa]
GCTA
BBa_435
[1234, GCTA, 1234]
[1234, GCTA, 1234, 1234, GCTA, 1234, 1234, GCTA, 1234, GCTA, 1234,
GCTA, 1234]

----------works, with numbers and comments
PROGRAM
int x = 5, y = 5, z;
z = x + y ;
print(z);
/*Property BioBrickID(txt);
Property Sequence(txt);
Property someprop2(txt);
Property RelativeStrength(num);
Property someList(txt[]);

Component customP(BioBrickID, Sequence, someList);
customP.addProperties(RelativeStrength);
customP cp("ABCD", "1234",("af", "afa", "afa"), 560);
print(cp.BioBrickID);
print(cp.RelativeStrength);
```

```
print(cp.someList);

Component Promoter(Sequence, BioBrickID);
Promoter p("GCTA", "BBa_435");
print(p.Sequence);
print(p.BioBrickID);

Device d = {cp, p, cp};
Device d2 = {d, d, p, d};
print(d.Sequence);
print(d2.Sequence);
*/
```

output:
10.0

----------works, arrays

PROGRAM

```
/*num x = 5.5, y = 5.5, z;
z = x + y ;
txt somet = "hello **=-- World!!!!!!!!!!!!!!!!!!!";
print("helo  " + "...!!!!!" + "#arar32q .");
print(somet);
print(z);*/
Property BioBrickID(txt);
Property Sequence(txt);
Property someprop2(txt);
Property RelativeStrength(num);
Property someList(txt[]);

txt[] a = ["1", "2", "3"], b = ["a", "b", "c"], d;
num[] n = [1, 2, 3], n2 = [4, 5, 6];

print("a:");
print(a);
print("b:");
print(n);

Component customP(BioBrickID, Sequence, someList);
customP.addProperties(RelativeStrength);
customP cp("ABCD", "1234",["af", "afa", "afa"], 560);
customP cp2(.Sequence("GCCC"), .someList(["af", "afa", "afa"]));
```

```
print("cp2.Sequence");
print(cp2.Sequence);
print("cp2.someList:");
print(cp2.someList);
/*
print(cp.BioBrickID);
print(cp.RelativeStrength);
print(cp.someList);

Component Promoter(Sequence, BioBrickID);
Promoter p("GCTA", "BBa_435");
print(p.Sequence);
print(p.BioBrickID);

Device d = {cp, p, cp};
Device d2 = {d, d, p, d};
print(d.Sequence);
print(d2.Sequence);*/

output:
a:
[1, 2, 3]
b:
[1.0, 2.0, 3.0]
cp2.Sequence
GCCC
cp2.someList:
[af, afa, afa]
```