Graphs 1 - Connections

Lab Description : Take a group of provided connections and create a map of all connections. Search this map with two provided values to see if a connection exists. All connections are bi-directional.

If A is connected to B and B is connected to C, is A connected to C? yes

Sample Data :

```
9
CA XY RS YS ST TB AX BD RJ
CD
PQ QX AX BX CX DX EX FX GX AB BC CD DE AE CE FD TG
PT
AE EI IO OU BC CD DF FG
AG
HI HJ HK KL KM KN MO MP MQ
HQ
AB CD EF GH CB ED GF HI
AI
TV XY AZ XT JK KL LT JX MN TN JL NO OP PT NX
VZ
AB BC CD DE EF FG GH HI IJ JA AC FZ
AZ
NO PQ RS TU OU RP AB CD EF GH AH CE NS FA GQ
DT
IX VX CX DX MX LX BY
IB
```

Files Needed ::

```
Graph.java
graph1.dat
```

Sample Output :

```
C connects to D == yes
P connects to T == yes
A connects to G == no
H connects to Q == yes
A connects to I == yes
V connects to Z == no
A connects to Z == yes
D connects to T == yes
I connects to B == no
```

algorithm help

```
check(String one, String two, String been)
{
  if a direct connection exists between one and two
    shut it down – we have a match
  else
  {
     get the current list of connections for one
     loop through all of the connections
     If you have not checked the current spot
        add current spot to been
        check to see a connection exists between spot and the destination ( recursive call )
  }
}
```