First, we set up our twitterCommunications map using the data:

```java
Map<String, Set<String>> twitterCommunications = {
    BarackObama = [GeorgeTakei, TechCrunch, YouTube, facebook, whitehouse],
    ConanOBrien = [GeorgeTakei],
    GeorgeTakei = [BarackObama, ConanOBrien, SethMacFarlane, bing, jesus, wilw],
    NathanFillion = [aplusk, feliciaday, kellyoxford, levarburton, wilw],
    SethMacFarlane = [GeorgeTakei],
    Square = [TechCrunch],
    TechCrunch = [BarackObama, Square, facebook],
    YouTube = [BarackObama],
    aplusk = [NathanFillion],
    bing = [GeorgeTakei],
    facebook = [BarackObama, TechCrunch],
    feliciaday = [NathanFillion],
    jesus = [GeorgeTakei],
    kellyoxford = [NathanFillion],
    levarburton = [NathanFillion],
    whitehouse = [BarackObama],
    wilw = [GeorgeTakei, NathanFillion]
};
```

We want to determine how far NathanFillion is from gruber.
int distance = 0;
Set<String> current = [NathanFillion]
Set<String> next = [aplusk, feliciaday, kellyoxford, levarburton, wilw]
int distance = 1;
Set<String> current  = [aplusk, feliciaday, kellyoxford, levarburton, wilw]
Set<String> next      = [GeorgeTakei, NathanFillion]
int distance = 2;
Set<String> current  = [GeorgeTakei, NathanFillion]

Set<String> next      = [BarackObama, ConanOBrien, SethMacFarlane, aplusk, bing, feliciaday, jesus, kellyoxford, levarburton, wilw]
int distance = 3;
Set<String> current = [BarackObama, ConanOBrien, SethMacFarlane, aplusk, bing, feliciaday, jesus, kellyoxford, levarburton, wilw]
Set<String> next = [GeorgeTakei, NathanFillion, TechCrunch, YouTube, facebook, whitehouse]
int distance = 4;
Set<String> current  = [GeorgeTakei, NathanFillion, TechCrunch, YouTube, facebook, whitehouse]
Set<String> next      = [BarackObama, ConanOBrien, SethMacFarlane, Square, TechCrunch, aplusk, bing, facebook, feliciaday, jesus, kellyoxford, levarburton, wilw]
int distance = 5;
Set<String> current = [BarackObama, ConanOBrien, SethMacFarlane, Square, TechCrunch, aplusk, bing, facebook, feliciaday, jesus, kellyoxford, levarburton, wilw]
int distance = 6;
Set<String> current = [GeorgeTakei, NathanFillion, TechCrunch, YouTube, facebook, whitehouse, Square, BarackObama]
```java
int distance = 7;
Set<String> current = [GeorgeTakei, TechCrunch, YouTube, facebook, whitehouse, Square, BarackObama, feliciaday, aplusk, wilw, levarburton, jesus, kellyoxford, SethMacFarlane, ConanOBrien, bing]
```
int distance = 8;
Set<String> current = [GeorgeTakei, TechCrunch, YouTube, facebook, whitehouse, Square, BarackObama, feliciaday, aplusk, wilw, levarburton, jesus, kellyoxford, SethMacFarlane, ConanOBrien, bing, NathanFillion]
So, finally, we see:

From here on out, we will infinite loop on the same set of actors...