First, we set up our `twitterCommunications` map using the data:
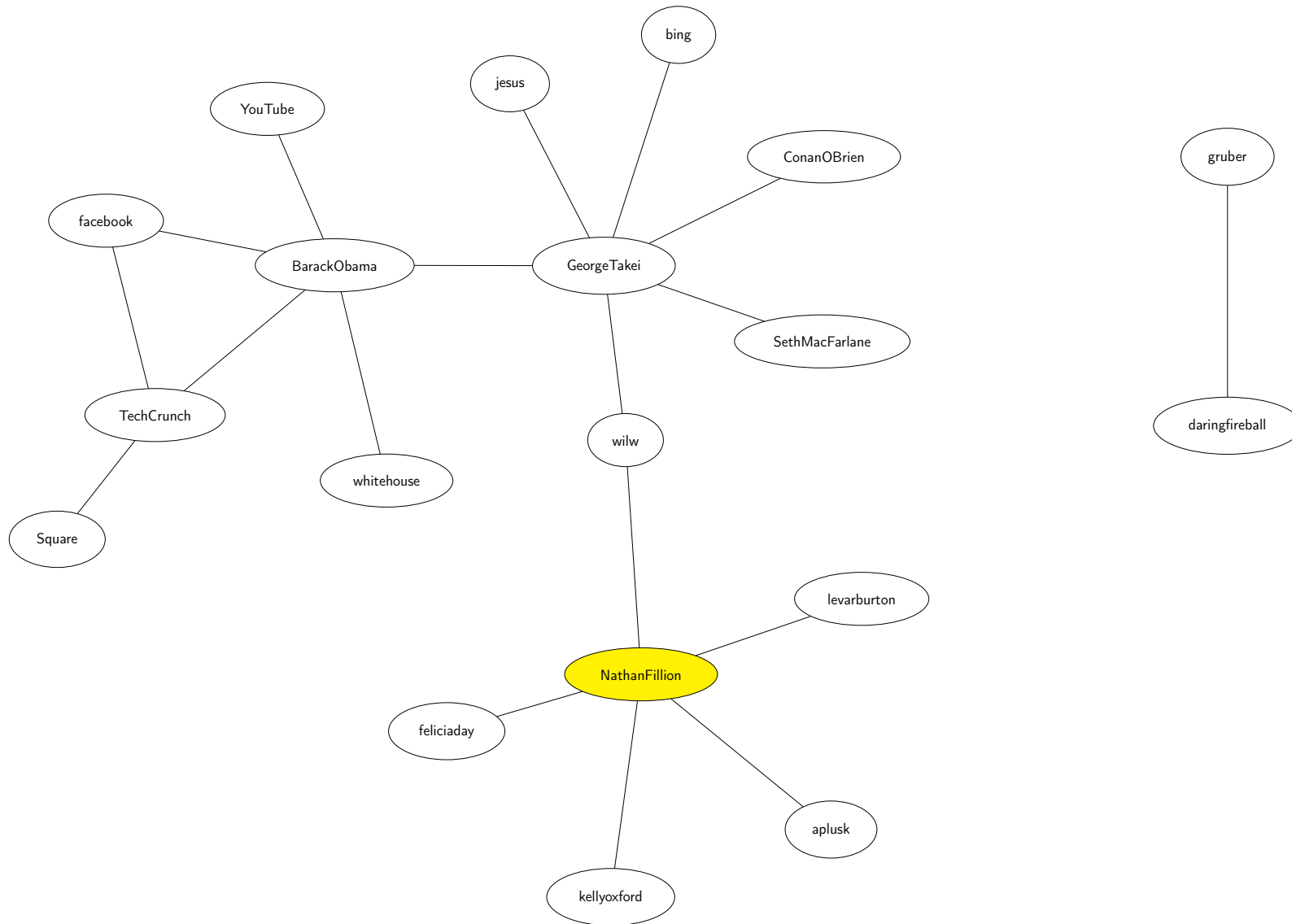
```
Map<String,Set<String>> twitterCommunications = {
    BarackObama     = [GeorgeTakei, TechCrunch, YouTube, facebook, whitehouse],
    ConanOBrien     = [GeorgeTakei],
    GeorgeTakei     = [BarackObama, ConanOBrien, SethMacFarlane, bing, jesus, wilw],
    NathanFillion   = [aplusk, feliciaday, kellyoxford, 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]
    gruber          = [daringfireball]
    daringfireball  = [gruber]
}
```

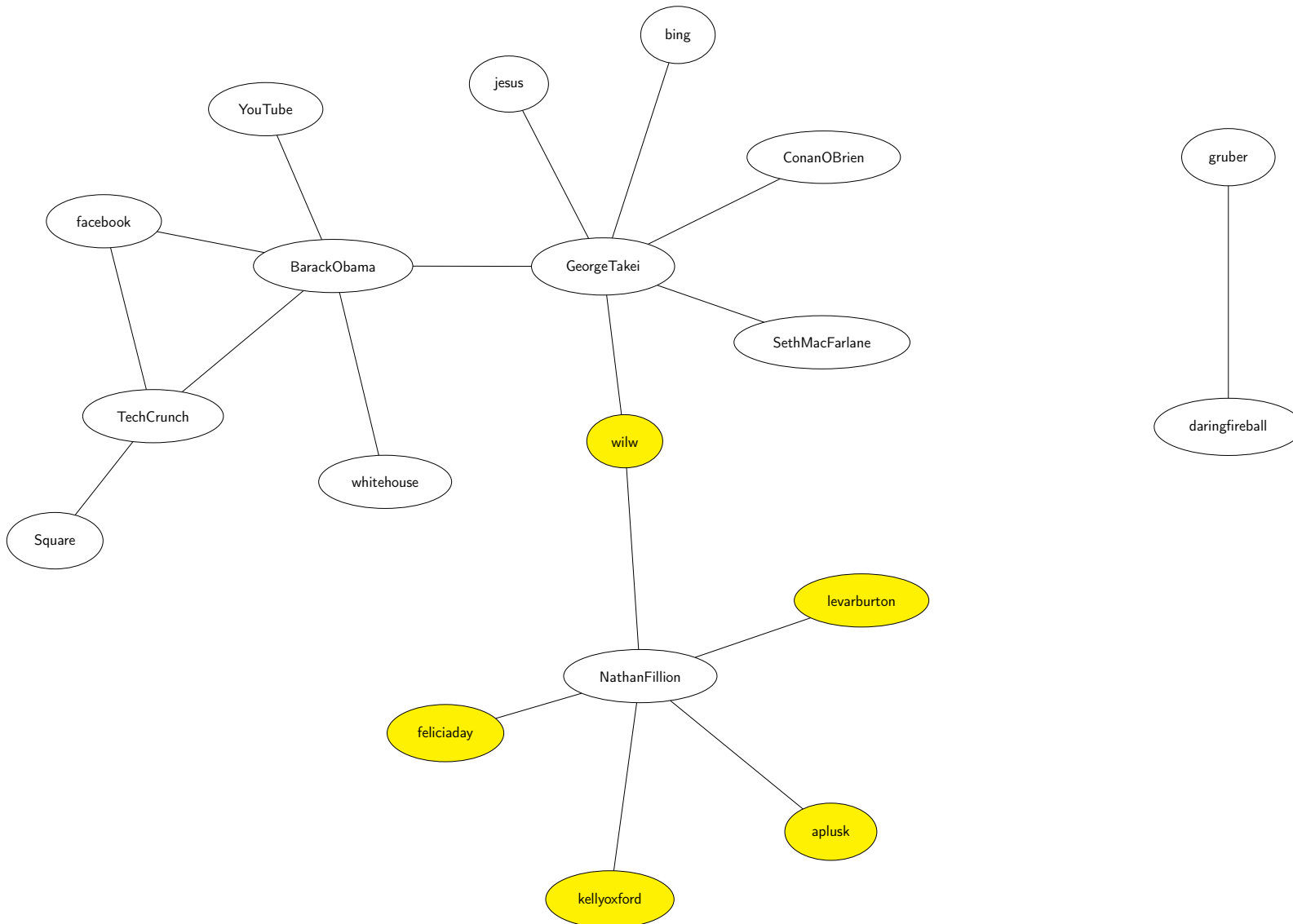We want to determine how far **NathanFillion** is from **gruber**.

```
int distance = 0;
Set<String> current  = [NathanFillion]

Set<String> next      = [aplusk, feliciaday, kellyoxford, levarburton, wilw]
```
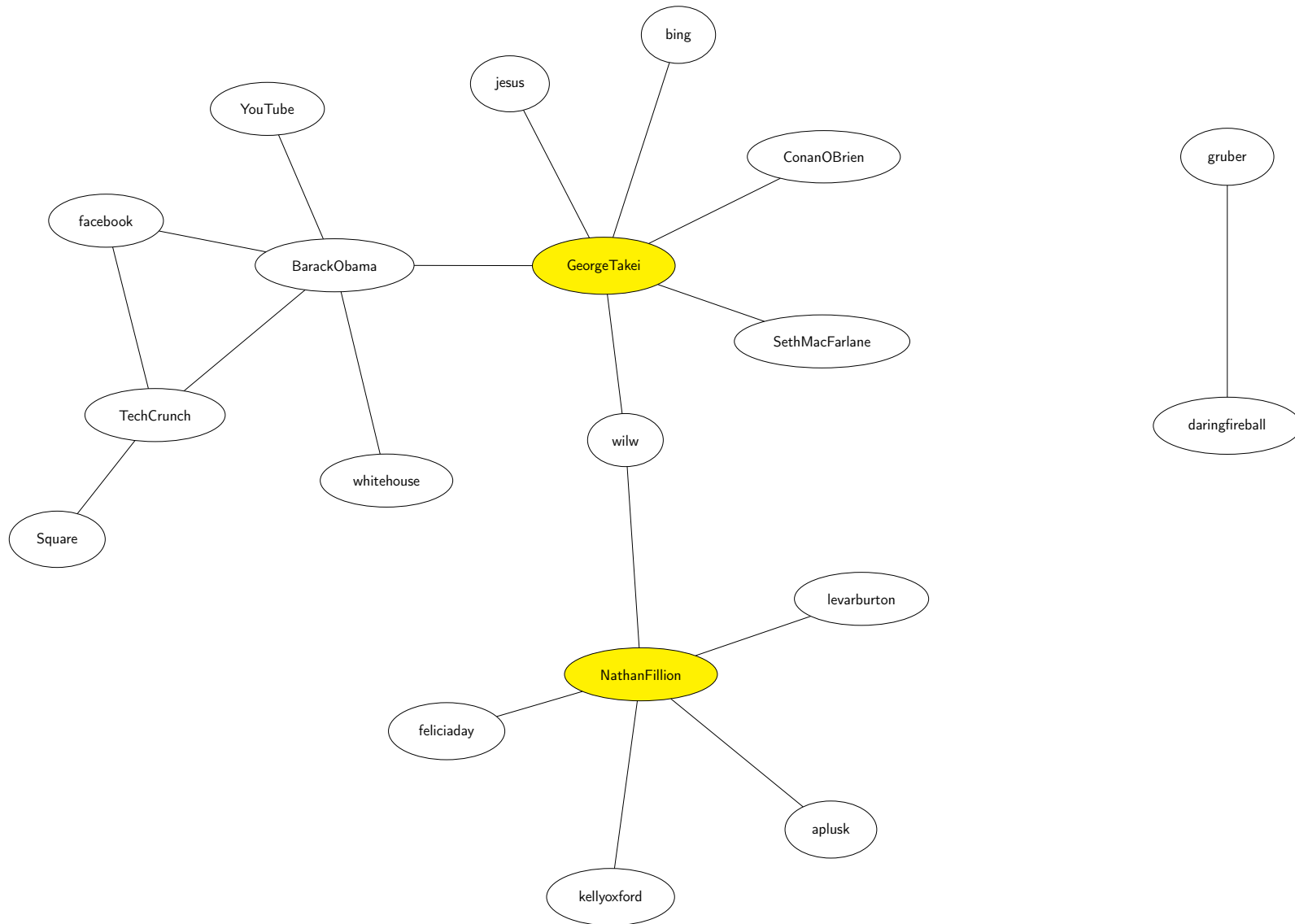
```
int distance = 1;
Set<String> current  = [aplusk, feliciaday, kellyoxford, levarburton, wilw]

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]
```
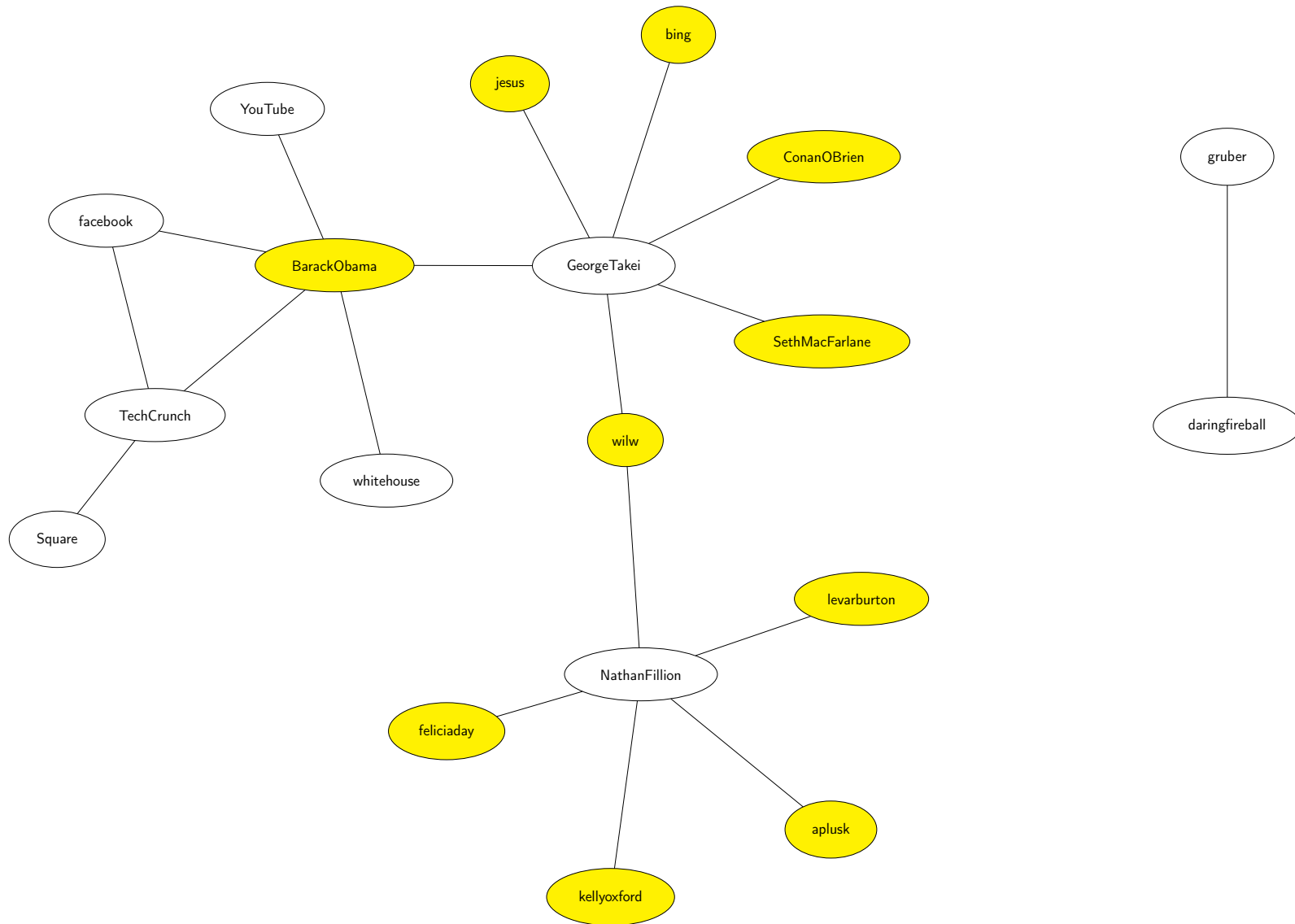
```
int distance = 3;
Set<String> current  = [BarackObama, ConanOBrien, SethMacFarlane, aplusk, bing,
                        feliciaday, jesus, kellyoxford, levarburton, wilw]
Set<String> next      = [GeorgeTakei, NathanFillion, TechCrunch, YouTube, facebook,
                        whitehouse]
```
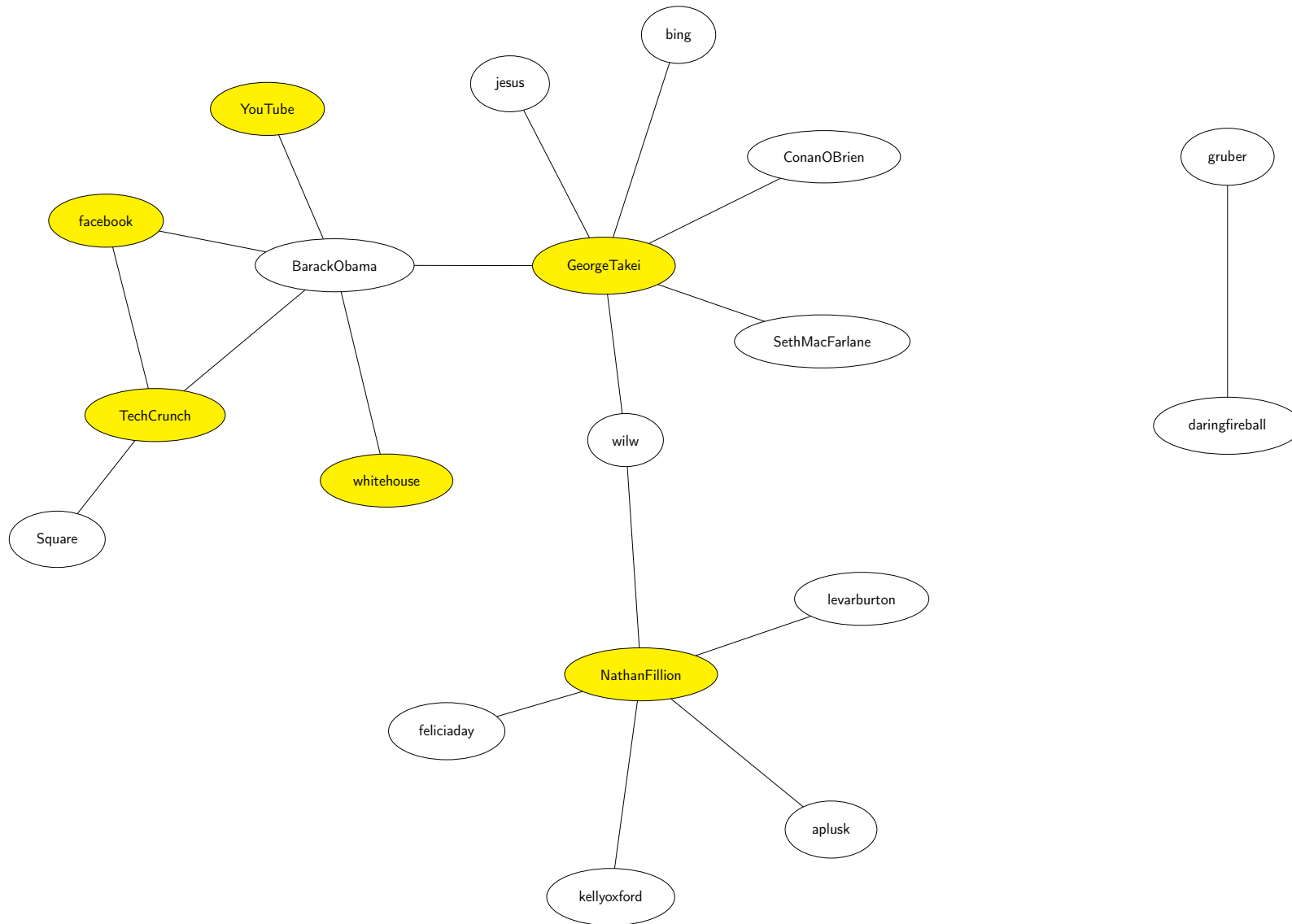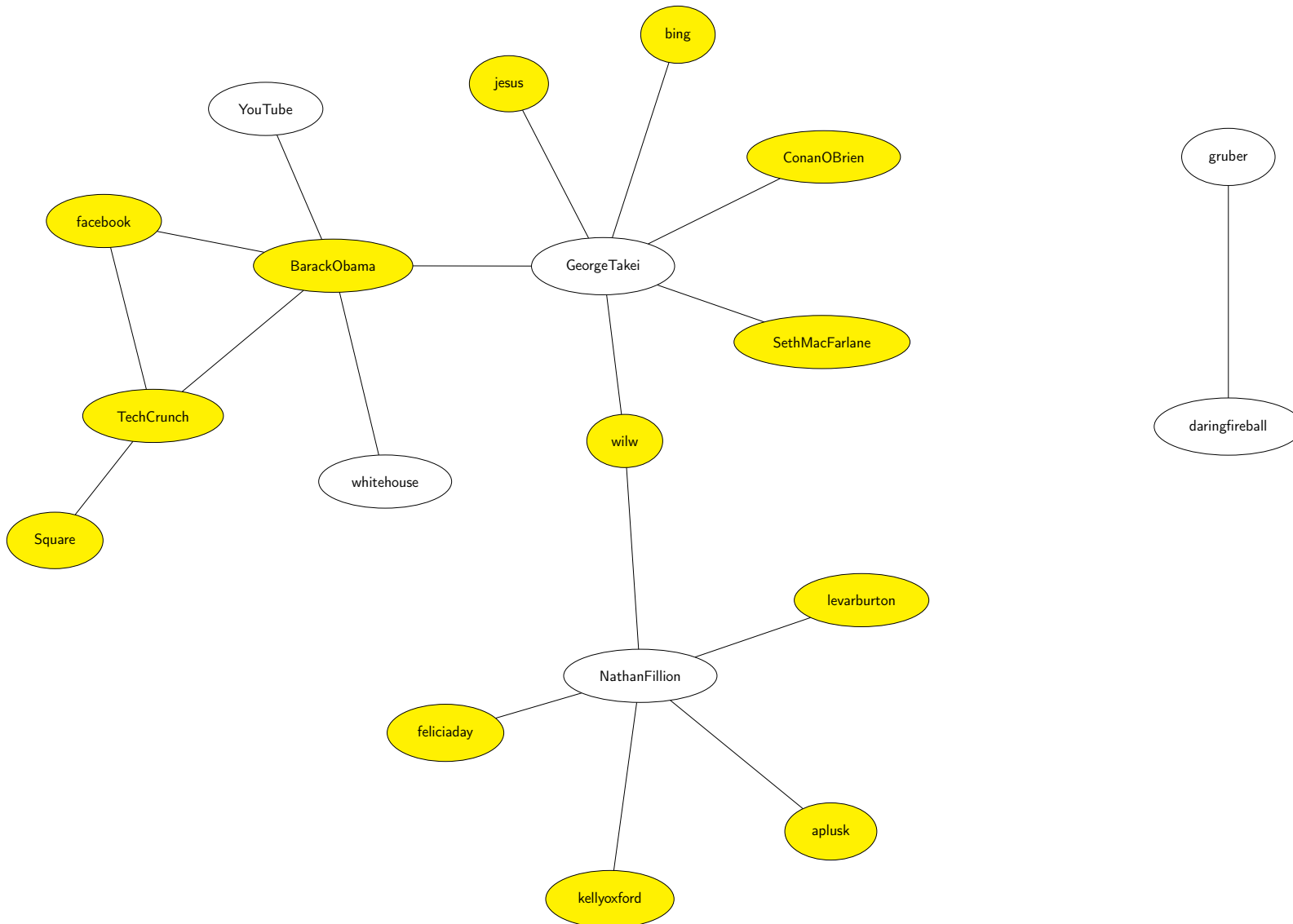
```
int distance = 4;
Set<String> current  = [GeorgeTakei, NathanFillion, TechCrunch, YouTube, facebook,
                        whitehouse]
Set<String> next     = [BarackObama, ConanOBrien, SethMacFarlane, Square, TechCrunch,
                        aplusk, bing, facebook, feliciaday, jesus, kellyoxford,
                        levarburton, wilw]
```

```
int distance = 5;
Set<String> current  = [BarackObama, ConanOBrien, SethMacFarlane, Square, TechCrunch,
                        aplusk, bing, facebook, feliciaday, jesus, kellyoxford,
                        levarburton, wilw]
```
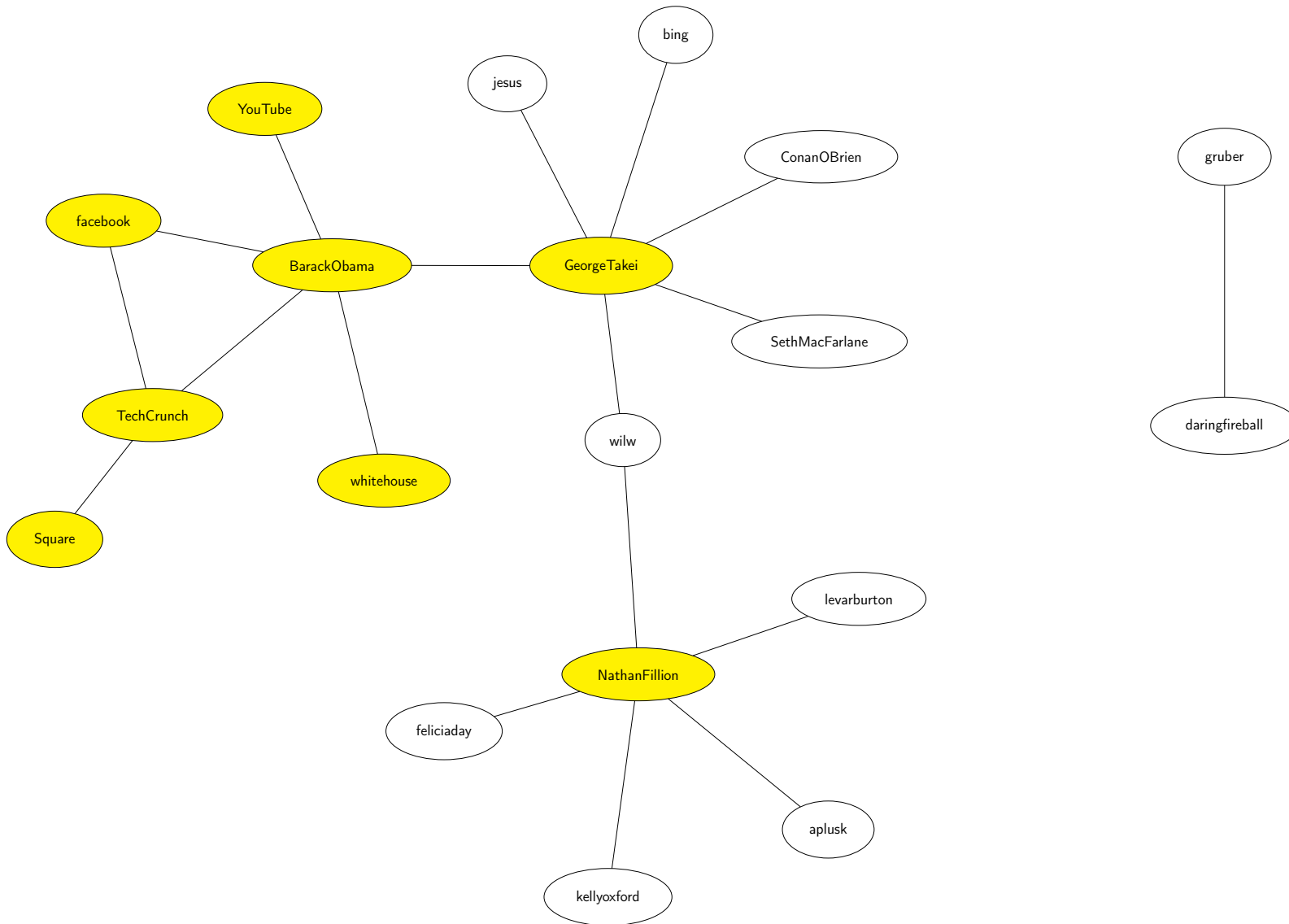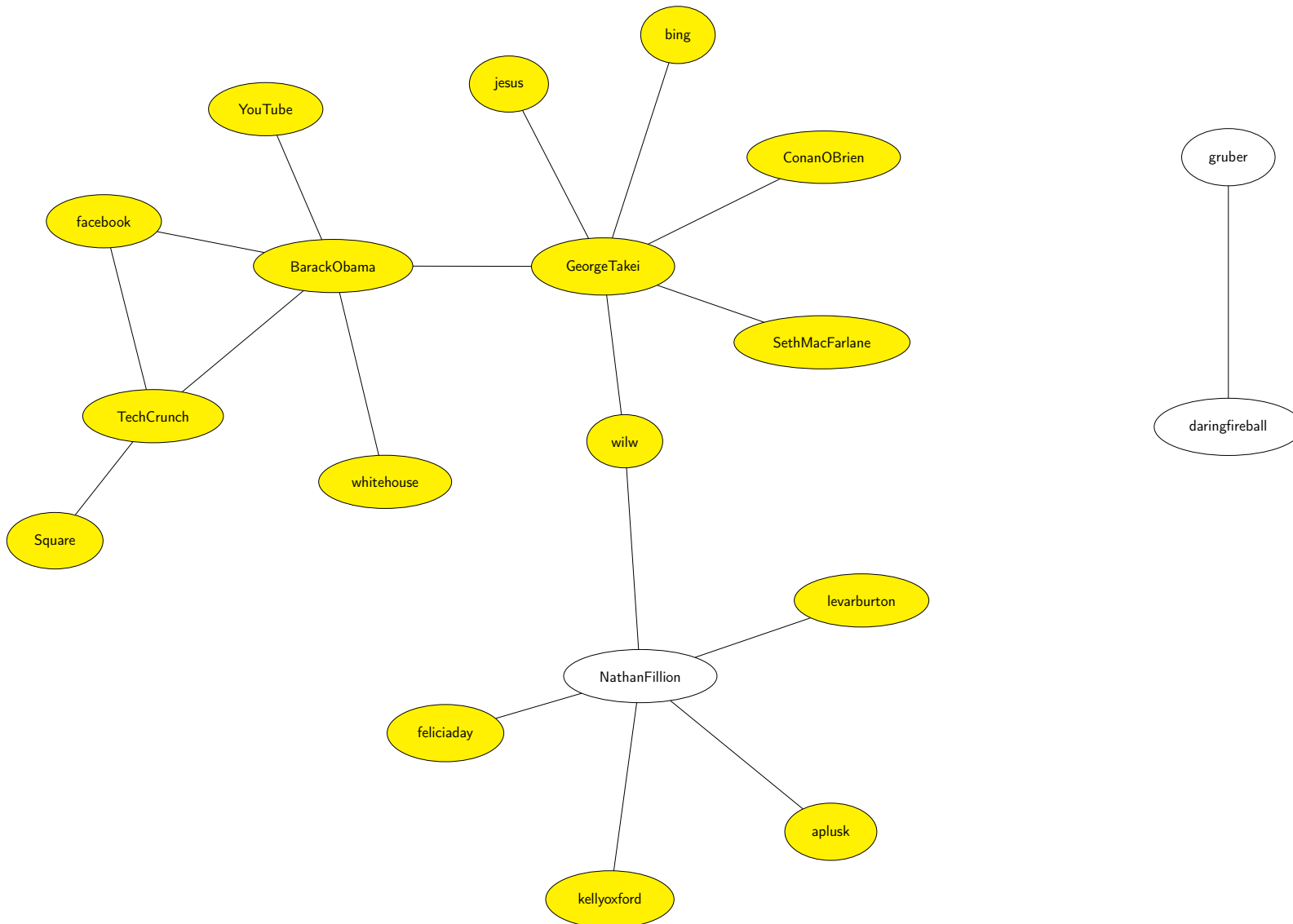
```
int distance = 6;
Set<String> current  = [GeorgeTakei, NathanFillion, TechCrunch, YouTube, facebook,
                        whitehouse, Square, BarackObama]
```
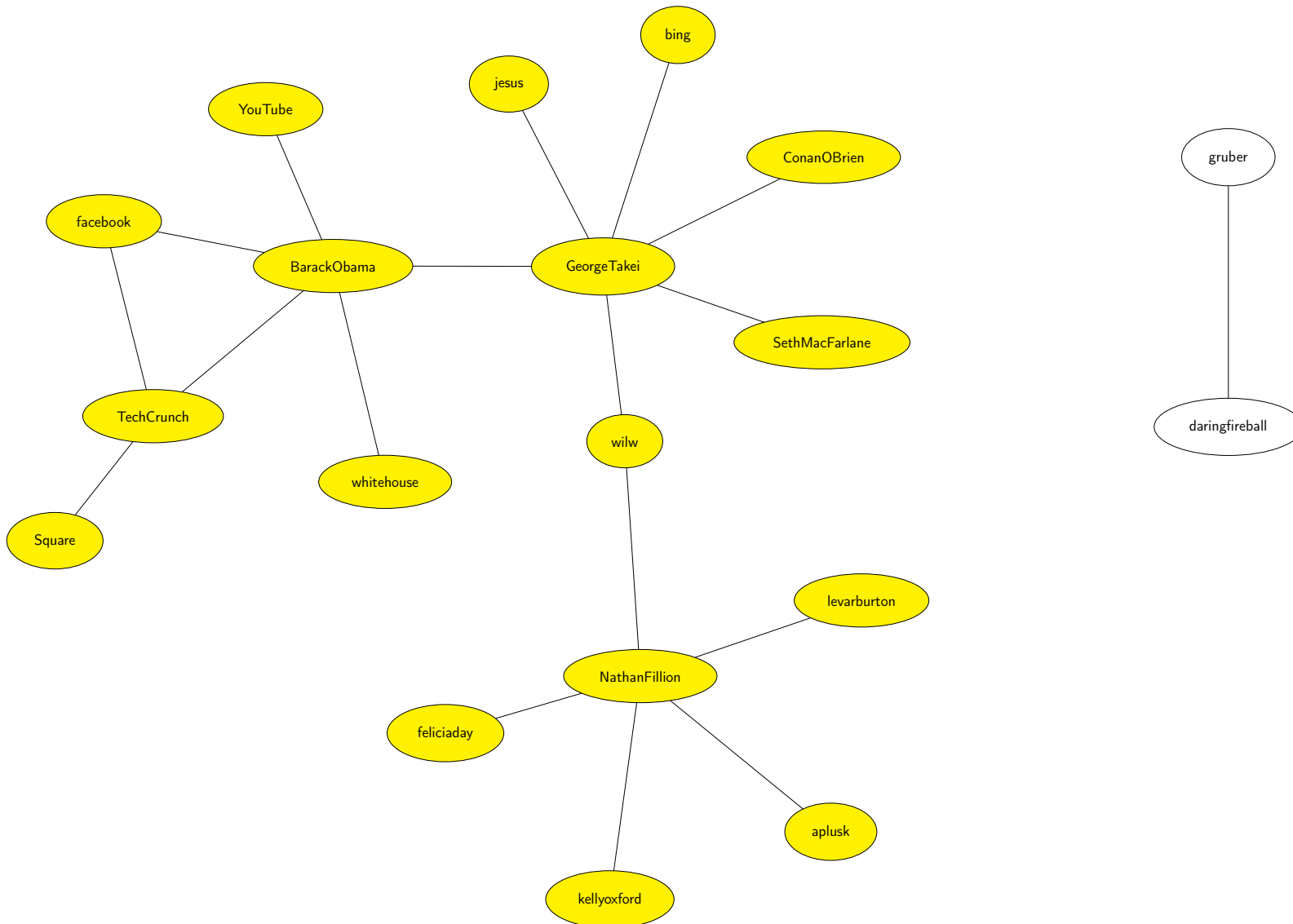
```
int distance = 7;
Set<String> current  = [GeorgeTakei, TechCrunch, YouTube, facebook, whitehouse,
                        Square, BarackObama, feliciaday, aplusk, wilw, levarburton,
                        jesus, kellyoxford, SethMacFarlane, ConanOBrien, bing]
```

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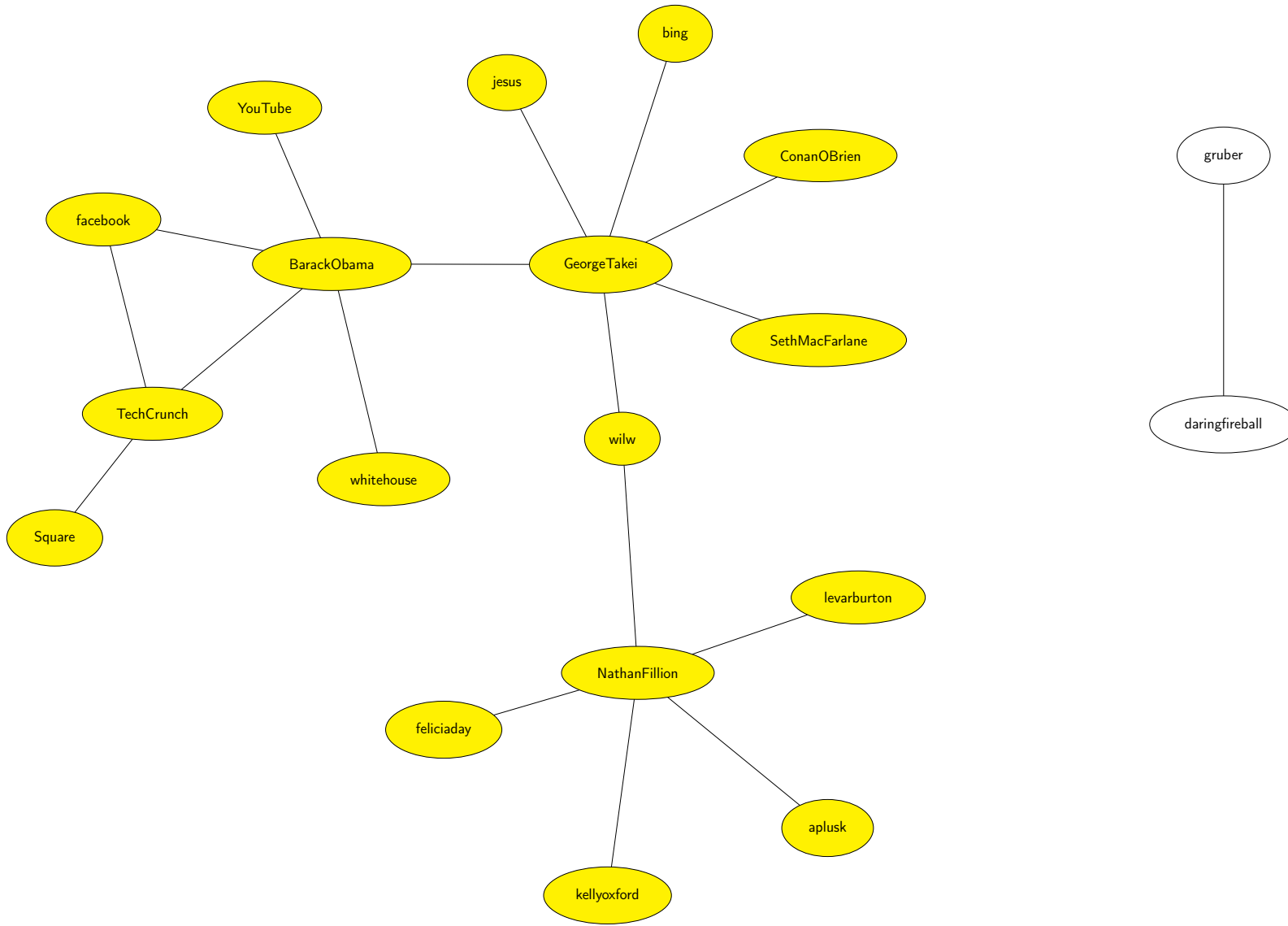
So, finally, we see:

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