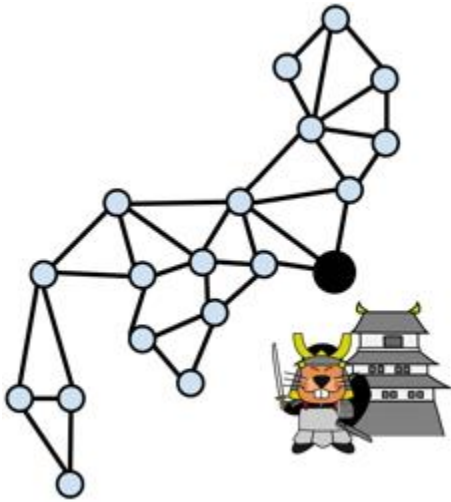


# Talent Search Examples

## Signal Fires



A long time ago, the samurai of Japan built a network of beacon stations. When an emergency occurred, the beacons were lit to warn the whole country.

The stations are shown as circles in the picture. If two stations are connected by a line, this means that they are 'neighbouring' stations.

When a beacon is lit, it will take a minute before the neighbouring beacons will see the signal fire. They then ignite the fire in their own beacons.

After another minute, the neighbours of these neighbours will see the signal fire and ignite their beacons. This sequence is repeated until all stations have lit their beacons.

One day the beacon of the headquarters is lit (the large black circle on the map).

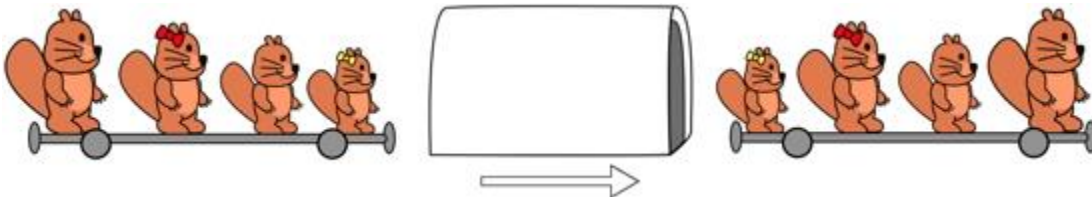
**How many minutes does it take until all the beacons are lit?**

# Magic Tunnels

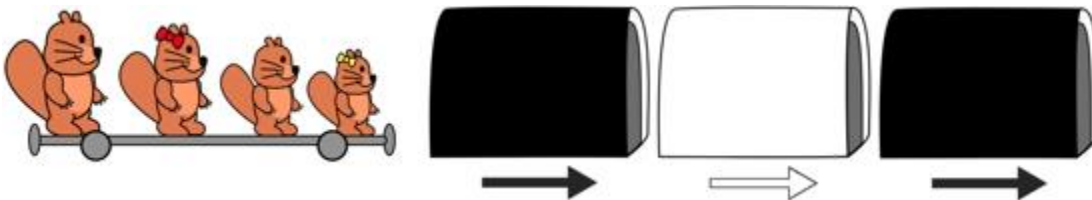
The beaver railway has two special types of tunnels. If a train travels through a black tunnel, the passengers come out in reverse order:



If a train travels through a white tunnel, the first and last passenger automatically change position:



The following train goes through three tunnels:



**In which order do the beavers come out of the last tunnel?**

