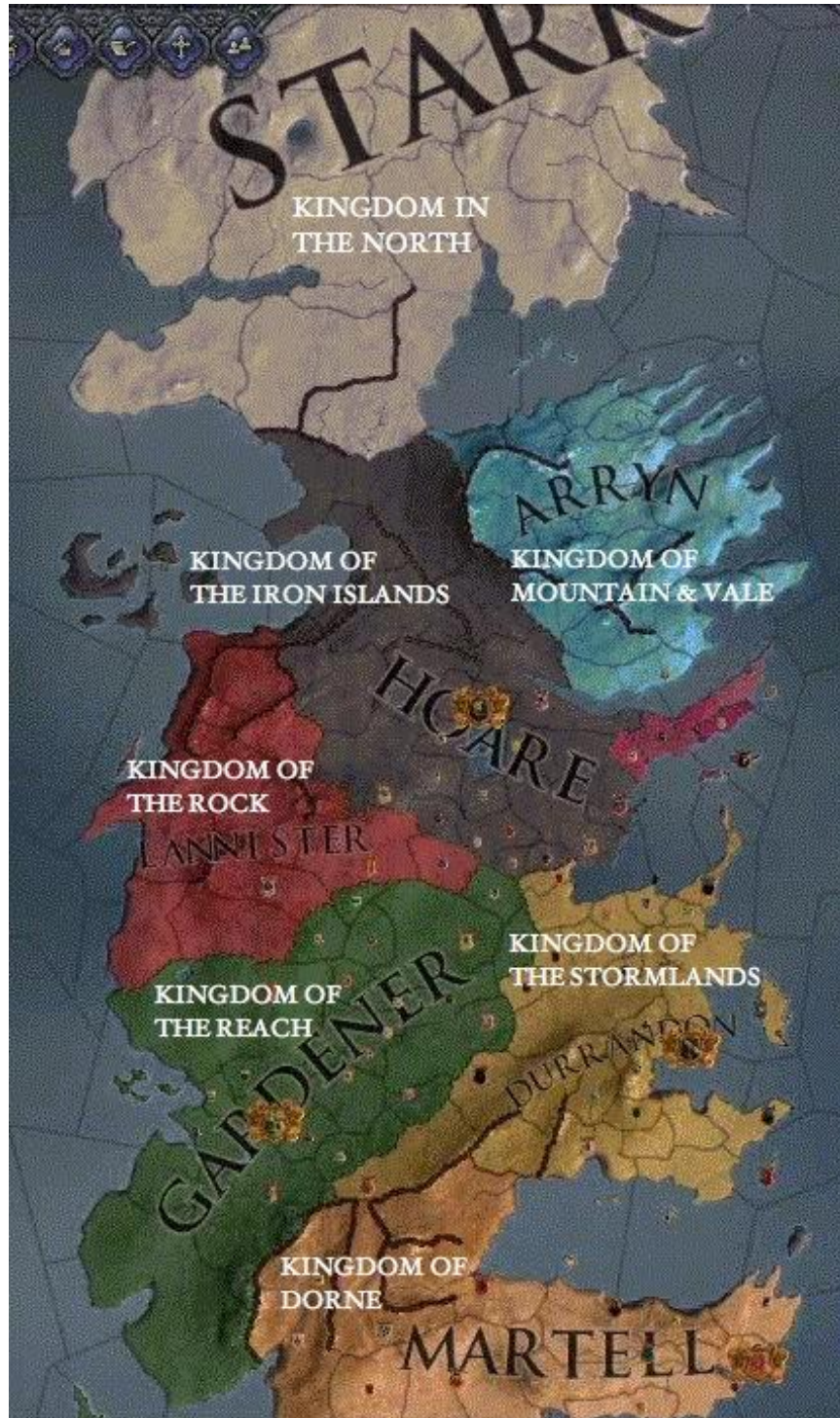


## 7 Kingdoms of Game of Thrones



In addition to the above map, there is a wall at the top of the north kingdom, beyond which the whitewalkers live. Population table for the given scenario is given below:

Name of the places	Number of Population
The North	1024
The Iron Island	800
The Mountain & Vale	250
The Rocks	480
The Reach	1000
The Stormlands	2000
The Drone	124
Beyond the Wall (Where whitewalkers live)	5000

- Choose an appropriate network address and create subnets to assign to each of the places with the **least amount of waste**.
- Assign IP addresses to all the devices and interfaces.
- The Whitewalkers have a web server to spread their propaganda and recruit whitewalkers.
- The House Lannister also have a web server to spread updated news around 7 kingdoms.
- Establish connections among all the networks with the shortest route possible.
  - Must have at least one floating route.
  - Must have a backup system to handle missing routing entries.
  - Configure half of the network to be routed dynamically.
- Showing 2 end devices per network is good enough to represent the whole population.
  - Iron Island has laptops and printers
- You need to be able to ping each other after all the setups are complete.
- Don't use more than 4 routers.

### Deliverables

- The network mentioned above should be implemented in packet tracer, with necessary devices and full configuration.
- After completion you should be able to test the conditions imposed.
- As softcopies, you will have to submit the followings:
  - Network topology diagram with proper labels
  - The configurations of all the routers that you have implemented.
  - VLSM/Network address table.
  - IP address table