# Chord

- Number of messages We study a Chord system, where nodes are spread on a circle.
    - Question 1 : Number of messages: What is the mean number of messages necessary for a request in a $2^n$ computer system where nodes are uniformly distributed ?
    - Question 2 : Worst case: Idem, but the worst case ? Give an example ?
- Load balancing
  We now investigate the load balancing in such systems.
    - Question 1: Describe the two main problems linked to the load balancing.
    - Question 2 : Disconnect/reconnect technique
        - Imagine a disconnect/reconnect technique that would improve load balancing
        - In which case this technique is efficient ? What is its cost ?
    - Question 3 : Virtual Hosts technique
        - Imagine a Virtual Host technique that would improve load balancing.
        - In which case this technique is efficient ? What is its cost ?