

General

Cycle Detection:

- Tortoise and hare
 - tortoise pointer moves 1 at each step
 - hare moves 2 at each step
 - if they ever meet there is a cycle
 - you can also use this algorithm (with more steps) to find start of cycle and the length of the cycle
- Applicable data structures
 - Linked List
 - Graph

General Common Issues:

- Space vs Indexing speed vs Sorting speed

sources:

- https://en.wikipedia.org/wiki/Cycle_detection