# Package Manager

## Objectives:

1. Parse an array of packages
2. Determine package hierarchy/dependencies
3. Throw out circular references
4. Determine install order

## Notes:

Directed graphs in C#:

<https://msdn.microsoft.com/en-us/library/microsoft.visualstudio.graphmodel.graph.aspx>

topological sort:

* How to detect cycles??

<https://www.youtube.com/watch?v=eL-KzMXSXXI>

dijkstra’s algorithm:  
<https://www.youtube.com/watch?v=gdmfOwyQlcI>