# **Graph Problems**

```
forecast Handler A
```

### **Problem 2**



```
forecast Handler A
```

### **Problem 2**



Write a function *depthFirst* :: *Graph* -> *Node* -> *[Node]* that generates a depth-first order graph traversal sequence.

Use the following Graph Notation:

```
type Node = Int
type Edge = (Node, Node)
type Graph = ([Node], [Edge])
```

### **Problem 2**



Write a function *depthFirst* :: *Graph* -> *Node* -> *[Node]* that generates a depth-first order graph traversal sequence.

Examples

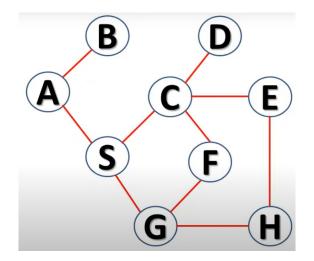
```
depthFirst
([1,2,3,4,5,6,7],[(1,2),(2,3),(1,4),(3,4),(2,5),(5,4),(6,7)]) 1
-> [1,2,3,4,5]
```

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## **Depth-First Search**



The algorithm starts at a starting node and explores as far as possible along each branch before backtracking.



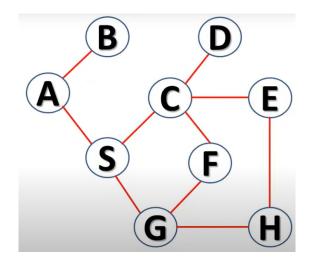
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## **Depth-First Search**



The algorithm starts at a starting node and explores as far as possible along each branch before backtracking.

We start at A



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