

# Microsoft Software Engineer Interview Questions

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- Traverse a binary tree using recursion.
- How will you find the height of a binary tree? Write a function to find the height.
- Explain how you will reverse a singly linked list.
- You have two intersecting linked lists. Describe a function that returns a pointer to the node where they intersect.
- Find the first 1 entry in an array of binary numbers.
- Design a function to merge a list of contacts between various clients updating a web service.
- Create an algorithm to place a series of randomized ships onto a battleship (game) -esque grid system.
- Create an algorithm to determine whether pixels surrounding a grid spot in a game of life environment are turned on.
- Write the shunting yard algorithm without a stack.
- How would you design a fridge for blind?
- How would you do an in order traverse of a tree without recursion.
- Divide two numbers without using / or % and return quotient.
- Are two words palindrome of each other?