

Your task is to design a 256-bit adder and you have three options: ripple carry adder, carry select adder, and carry look-ahead adder.

- ### Problem 2:

- ### Problem 3:

1. Show the high-level structure of a 5-bit magnitude comparator using alternative design 3. that is, starting from the most significant bit and ending in the least significant bit and propagating an equal and AGB bits between the different slices.
2. Fill the table for the following inputs: (Hint you need to convert A and B to binary first).

[illegible]

3. In your own words, explain how does this magnitude comparator works, specifically what is happening for each bit slice and how are the Eq and AGB signals propagated.
4. Also, explain how would you interpret your final outputs Eq0 and AGB0.