MathOperationResolver Class: User's Input Input operation Solve method Method Call Only public method and entry of class that will validate input first using ValidateInputOperation Input Returned Result method and if it's a valid operation it will pass it to OperationResolver method otherwise throws an ecepition Input operation has peranthesis? CalculateOperation method Wich decides how to solve operation inside input Input is simple without peranthesis DeletePeranthesis method Will pick the most inner operation in peranthesis and replace it with Simplified operation (most inner) answer of that operation and returns a simplified operation Send's the array of digits and the array of operators to Extracted most inner operation in peranthesis OperationResolver method calculate the final result of It accepts a simple operation operation containing main operators and extracts digits and operators the calls CalculateOperationResult nethod and returns the operation's answer Most inner operation's result Input operation and considered operators Input operation and considered operators ExtractDigits method Extracted digits ExtractOperators method Splits using considered operators from input as an Accepts an operation and extract's and loops through result if it's a digit array the considered operators, finally adds it to final result and if it's a operation calls OperationResolver returns extracted operators as an Extracted method to solve the operation and array operators from adds the answer to final result input as an array Simple operation than contains one CalculateOperationResult method operator and two value (operator must be Will accept array of digits and array of one of the main 4, otherwise it will throw While spliting input to find operators, then it will loop through operators SimpleOperationResolver method digits if it finds an operation an error) and call SimpleOperationResolver to do the Accepts 2 value as input and a with a higher precedence it will math for each operation, finally it returns the operator, then it will calculate result call the OperationResolver using a switch case on operator and final result (length of operators array should method recursivly and adds the always be one less than length of digits, returns the final result result to list of extracted digits otherwise will throw exception) Result of the simple operation