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|                               |
|                               | SortedStack                               |
|                               |-----+
| Attributes:                  |
| -----                      |
| - stack: Stack<Integer>      |
|                               |-----+
| Methods:                    |
| -----                      |
| + insertSorted(stack: Stack<Integer>, data: int): void
| |   - Inserts an integer into the stack and sorts the stack
| |   - Throws IllegalArgumentException for invalid data
| + printStack(stack: Stack<Integer>): void
| |   - Prints all elements of the stack
| + main(args: String[]): void
| |   - Reads input from the user, inserts, and prints the stack
| |   - Handles input validation
|                               |
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|                               |
|                               | Stack                               |
|                               |-----+
| Attributes:                  |
| -----                      |
| - elements: ArrayList<E>     |
|                               |-----+
| Methods:                    |
| -----                      |
| + push(item: E): void
| + pop(): E
| + peek(): E
| + isEmpty(): boolean
| + size(): int
|                               |
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```