Task1 Output

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| 1a | 0:"i"  1: "enjoy"  2: "coding"  3: "and"  4: "writing"  5: "code"  6: "is"  7: "a"  8: "lot"  9: "of"  10: "fun" |
| 1b | 0: "HELLO"  1: "WORLD!"  2: "THIS"  3: "IS"  4: "A"  5: "TEST." |
| 1c | HWE |
| 1d | 0: "Hello"  1: "a"  2: "sample"  3: "text." |
| 1e | 7 |
| 1f | 0: {myWord: 'Hello', wordLength: 5, vowelCount: 2}  1: {myWord: 'world', wordLength: 5, vowelCount: 1} |

Task2 Output

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| 2g | {id: 'B388', name: 'Appy', category: 'SoftDrink', price: 35, quantity: 9}  {id: 'A354', name: 'DairyMilk', category: 'Chocloate', price: 30, quantity: 4}  {id: 'B225', name: 'MinuteMaid', category: 'SoftDrink', price: 25, quantity: 12}  {id: 'A617', name: 'Mirinda', category: 'SoftDrink', price: 20, quantity: 20}  {id: 'B003', name: 'Sprite', category: 'SoftDrink', price: 16, quantity: 5}  {id: 'A441', name: 'Pepsi', category: 'SoftDrink', price: 15, quantity: 2}  {id: 'B635', name: 'KitKat', category: 'Chocloate', price: 15, quantity: 7}  {id: 'A899', name: 'Gems', category: 'Chocloate', price: 12, quantity: 11}  {id: 'B234', name: 'Coke', category: 'SoftDrink', price: 10, quantity: 8}  {id: 'A742', name: '5Star', category: 'Chocloate', price: 10, quantity: 3} |
| 2h | {id: 'A354', name: 'DairyMilk', category: 'Chocloate', price: 30, quantity: 4}  {id: 'A441', name: 'Pepsi', category: 'SoftDrink', price: 15, quantity: 2}  {id: 'A617', name: 'Mirinda', category: 'SoftDrink', price: 20, quantity: 20}  {id: 'A742', name: '5Star', category: 'Chocloate', price: 10, quantity: 3}  {id: 'A899', name: 'Gems', category: 'Chocloate', price: 12, quantity: 11}  {id: 'B003', name: 'Sprite', category: 'SoftDrink', price: 16, quantity: 5}  {id: 'B225', name: 'MinuteMaid', category: 'SoftDrink', price: 25, quantity: 12}  {id: 'B234', name: 'Coke', category: 'SoftDrink', price: 10, quantity: 8}  {id: 'B388', name: 'Appy', category: 'SoftDrink', price: 35, quantity: 9}  {id: 'B408', name: 'Perk', category: 'Chocloate', price: 8, quantity: 15}  {id: 'B635', name: 'KitKat', category: 'Chocloate', price: 15, quantity: 7} |
| 2i | {id: 'A441', name: 'Pepsi', category: 'SoftDrink', price: 15, quantity: 2}  {id: 'A742', name: '5Star', category: 'Chocloate', price: 10, quantity: 3}  {id: 'A354', name: 'DairyMilk', category: 'Chocloate', price: 30, quantity: 4}  {id: 'B003', name: 'Sprite', category: 'SoftDrink', price: 16, quantity: 5}  {id: 'B635', name: 'KitKat', category: 'Chocloate', price: 15, quantity: 7}  {id: 'B234', name: 'Coke', category: 'SoftDrink', price: 10, quantity: 8}  {id: 'B388', name: 'Appy', category: 'SoftDrink', price: 35, quantity: 9}  {id: 'A899', name: 'Gems', category: 'Chocloate', price: 12, quantity: 11}  {id: 'B225', name: 'MinuteMaid', category: 'SoftDrink', price: 25, quantity: 12}  {id: 'B408', name: 'Perk', category: 'Chocloate', price: 8, quantity: 15}  {id: 'A617', name: 'Mirinda', category: 'SoftDrink', price: 20, quantity: 20} |
| 2j | {id: 'A742', name: '5Star', category: 'Chocloate', price: 10, quantity: 3}  {id: 'A354', name: 'DairyMilk', category: 'Chocloate', price: 30, quantity: 4}  {id: 'A899', name: 'Gems', category: 'Chocloate', price: 12, quantity: 11}  {id: 'B635', name: 'KitKat', category: 'Chocloate', price: 15, quantity: 7}  {id: 'B408', name: 'Perk', category: 'Chocloate', price: 8, quantity: 15}  {id: 'B388', name: 'Appy', category: 'SoftDrink', price: 35, quantity: 9}  {id: 'B234', name: 'Coke', category: 'SoftDrink', price: 10, quantity: 8}  {id: 'B225', name: 'MinuteMaid', category: 'SoftDrink', price: 25, quantity: 12}  {id: 'A617', name: 'Mirinda', category: 'SoftDrink', price: 20, quantity: 20}  {id: 'A441', name: 'Pepsi', category: 'SoftDrink', price: 15, quantity: 2}  {id: 'B003', name: 'Sprite', category: 'SoftDrink', price: 16, quantity: 5} |
| 2k | {id: 'A441', name: 'Pepsi', category: 'SoftDrink', price: 15, quantity: 2}  {id: 'B234', name: 'Coke', category: 'SoftDrink', price: 10, quantity: 8}  {id: 'A617', name: 'Mirinda', category: 'SoftDrink', price: 20, quantity: 20}  {id: 'B003', name: 'Sprite', category: 'SoftDrink', price: 16, quantity: 5}  {id: 'B225', name: 'MinuteMaid', category: 'SoftDrink', price: 25, quantity: 12}  {id: 'B388', name: 'Appy', category: 'SoftDrink', price: 35, quantity: 9} |
| 2l | {id: 'A617', name: 'Mirinda', category: 'SoftDrink', price: 20, quantity: 20}  {id: 'B225', name: 'MinuteMaid', category: 'SoftDrink', price: 25, quantity: 12}  {id: 'B388', name: 'Appy', category: 'SoftDrink', price: 35, quantity: 9} |
| 2m | {id: 'A441', name: 'Pepsi', category: 'SoftDrink', price: 15, quantity: 2}  {id: 'A617', name: 'Mirinda', category: 'SoftDrink', price: 20, quantity: 20}  {id: 'A742', name: '5Star', category: 'Chocloate', price: 10, quantity: 3}  {id: 'A899', name: 'Gems', category: 'Chocloate', price: 12, quantity: 11}  {id: 'A354', name: 'DairyMilk', category: 'Chocloate', price: 30, quantity: 4} |
| 2n | {id: 'A441', name: 'Pepsi', category: 'Soft Drink', price: 15, quantity: 2}  {id: 'B234', name: 'Coke', category: 'Soft Drink', price: 10, quantity: 8}  {id: 'B003', name: 'Sprite', category: 'Soft Drink', price: 16, quantity: 5}  {id: 'A742', name: '5Star', category: 'Chocolate', price: 10, quantity: 3}  {id: 'A899', name: 'Gems', category: 'Chocolate', price: 12, quantity: 11}  {id: 'B635', name: 'KitKat', category: 'Chocolate', price: 15, quantity: 7}  {id: 'B408', name: 'Perk', category: 'Chocolate', price: 8, quantity: 15}  {id: 'A354', name: 'Dairy Milk', category: 'Chocolate', price: 30, quantity: 4} |
| 2o | Product with the highest price: Appy |
| 2p | "Dairy Milk" |
| 2q | "Pepsi belongs to the category Soft Drink. Its id is A441 and price is 15."  "Coke belongs to the category Soft Drink. Its id is B234 and price is 10."  "Mirinda belongs to the category Soft Drink. Its id is A617 and price is 20."  "Sprite belongs to the category Soft Drink. Its id is B003 and price is 16."  "Minute Maid belongs to the category Soft Drink. Its id is B225 and price is 25."  "5Star belongs to the category Chocloate. Its id is A742 and price is 10."  "Appy belongs to the category Soft Drink. Its id is B388 and price is 35."  "Gems belongs to the category Chocloate. Its id is A899 and price is 12."  "KitKat belongs to the category Chocloate. Its id is B635 and price is 15."  "Perk belongs to the category Chocloate. Its id is B408 and price is 8."  "Dairy Milk belongs to the category Chocloate. Its id is A354 and price is 30." |
| 2r | {id: 'A441', name: 'Pepsi', category: 'Soft Drink', price: 18, quantity: 2}  {id: 'B234', name: 'Coke', category: 'Soft Drink', price: 13, quantity: 8}  {id: 'A617', name: 'Mirinda', category: 'Soft Drink', price: 23, quantity: 20}  {id: 'B003', name: 'Sprite', category: 'Soft Drink', price: 19, quantity: 5}  {id: 'B225', name: 'Minute Maid', category: 'Soft Drink', price: 28, quantity: 12}  {id: 'A742', name: '5Star', category: 'Chocolate', price: 8, quantity: 3}  {id: 'B388', name: 'Appy', category: 'Soft Drink', price: 38, quantity: 9}  {id: 'A899', name: 'Gems', category: 'Chocolate', price: 10, quantity: 11}  {id: 'B635', name: 'KitKat', category: 'Chocolate', price: 13, quantity: 7}  {id: 'B408', name: 'Perk', category: 'Chocolate', price: 6, quantity: 15}  {id: 'A354', name: 'Dairy Milk', category: 'Chocolate', price: 28, quantity: 4} |
| 2s | {id: 'A441', name: 'Pepsi', category: 'Soft Drink', price: 18, quantity: 2}  {id: 'B234', name: 'Coke', category: 'Soft Drink', price: 13, quantity: 8}  {id: 'A617', name: 'Mirinda', category: 'Soft Drink', price: 23, quantity: 20}  {id: 'B003', name: 'Sprite', category: 'Soft Drink', price: 19, quantity: 5}  {id: 'B225', name: 'Minute Maid', category: 'Soft Drink', price: 28, quantity: 12}  {id: 'A742', name: '5Star', category: 'Chocolate', price: 8, quantity: 3}  {id: 'B388', name: 'Appy', category: 'Soft Drink', price: 38, quantity: 9}  {id: 'A899', name: 'Gems', category: 'Chocolate', price: 10, quantity: 11}  {id: 'B635', name: 'KitKat', category: 'Chocolate', price: 13, quantity: 7}  {id: 'B408', name: 'Perk', category: 'Chocolate', price: 6, quantity: 15}  {id: 'A354', name: 'Dairy Milk', category: 'Chocolate', price: 28, quantity: 4} |
| 2t | {id: 'A441', name: 'Pepsi', category: 'Soft Drink', price: 15, quantity: 2}  {id: 'B234', name: 'Coke', category: 'Soft Drink', price: 10, quantity: 8}  {id: 'A617', name: 'Mirinda', category: 'Soft Drink', price: 20, quantity: 20}  {id: 'B003', name: 'Sprite', category: 'Soft Drink', price: 16, quantity: 5}  {id: 'B225', name: 'Minute Maid', category: 'Soft Drink', price: 25, quantity: 12}  {id: 'A742', name: '5Star', category: 'Chocloate', price: 10, quantity: 3}  {id: 'B388', name: 'Appy', category: 'Soft Drink', price: 35, quantity: 9}  {id: 'A899', name: 'Gems', category: 'Chocloate', price: 12, quantity: 11}  {id: 'B635', name: 'KitKat', category: 'Chocloate', price: 15, quantity: 13}  {id: 'B408', name: 'Perk', category: 'Chocloate', price: 8, quantity: 15}  {id: 'A354', name: 'Dairy Milk', category: 'Chocloate', price: 30, quantity: 4} |
| 2u | {id: 'A441', orderQuantity: 2, name: 'Pepsi', price: 15}  {id: 'A354', orderQuantity: 5, name: 'Dairy Milk', price: 30}  {id: 'B003', orderQuantity: 9, name: 'Sprite', price: 16} |

Task3 Output

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| 3a | {id: 'A441', totalSales: 113}  {id: 'B234', totalSales: 39}  {id: 'A617', totalSales: 25}  {id: 'C229', totalSales: 75}  {id: 'D412', totalSales: 94}  {id: 'A054', totalSales: 39}  {id: 'B955', totalSales: 6}  {id: 'M341', totalSales: 22}  {id: 'H103', totalSales: 12}  {id: 'B199', totalSales: 15}  {id: 'D388', totalSales: 50} |
| 3b | Total number of units sold: 490 |
| 3c | {id: 'A441', maxSale: 30}  {id: 'B234', maxSale: 10}  {id: 'A617', maxSale: 5}  {id: 'C229', maxSale: 10}  {id: 'D412', maxSale: 25}  {id: 'A054', maxSale: 11}  {id: 'B955', maxSale: 1}  {id: 'M341', maxSale: 5}  {id: 'H103', maxSale: 3}  {id: 'B199', maxSale: 6}  {id: 'D388', maxSale: 9} |
| 3d | {id: 'A441', sales: Array(7)}  {id: 'B234', sales: Array(9)}  {id: 'A617', sales: Array(5)}  {id: 'C229', sales: Array(11)}  {id: 'D412', sales: Array(4)}  {id: 'A054', sales: Array(10)}  {id: 'B955', sales: Array(6)}  {id: 'M341', sales: Array(6)}  {id: 'H103', sales: Array(6)}  {id: 'B199', sales: Array(3)}  {id: 'D388', sales: Array(10)}  {id: 'E123', sales: Array(1)} |