COLLECTORS EASY:

(1) Question: Collect a list of integers into a List.?

Input: [1, 2, 3, 4, 5]

Output: [1, 2, 3, 4, 5]

(2) Question: Collect a list of strings into a comma-separated String.?

Input: ["apple", "banana", "cherry"]

Output: apple, banana, cherry

(3) Question: Collect a list of integers into a Set (removing duplicates).?

Input: [1, 2, 2, 3, 3, 4, 5]

Output: [1, 2, 3, 4, 5]

(4) **Question:** Count the number of elements in a list of integers?

Input: [1, 2, 3, 4, 5]

Output: 5

(5) Question: Collect the sum of a list of integers.?

Input: [1, 2, 3, 4, 5]

Output: 15

(6) Question: Collect a list of strings into a List of uppercase strings.?

Input: ["apple", "banana", "cherry"]

Output: [APPLE, BANANA, CHERRY]

(7) **Question:** Collect a list of booleans and count how many are true.?

Input: [true, false, true, true]

Output: 3

(8) Question: Find the maximum value in a list of integers.?

Input: [1, 2, 3, 4, 5]

Output: 5

(9) Question: Collect the minimum value in a list of integers.?

Input: [5, 3, 9, 2, 8]

Output: 2

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(10) Question: Join a list of characters into a single String.?
     Input: ['a', 'b', 'c']
     Output: abc
                                   MEDIUM:
 (1) Question: Given a list of integers, create a map that counts the occurrences of each
     integer.?
     Input:
     List<Integer> list = Arrays.asList(1, 2, 2, 3, 1);
     Output:
     k: 1 = v: 2
     k: 2 = v: 2
     k: 3 = v: 1
 (2) Question: Given a map of key-value pairs, create a new map that inverts the keys and
     values.?
     Input:
     Map<Integer, String> originalMap = new HashMap<>();
     originalMap.put(1, "a");
     originalMap.put(2, "b");
     originalMap.put(3, "c");
     Output:
     {a=1, b=2, c=3}
 (3) Task: Collect a list of integers into a comma-separated string.?
     Input: [3, 5, 7, 9]
     Output: 3,5,7,9
(4) Question: Find the maximum value in a list of integers?
    Input:
    List<Integer> list = Arrays.asList(5, 12, 8, 21, 7);
    Output: 21
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(5) Question: Remove duplicates from a list of integers?
Input:
List<Integer> list = Arrays.asList(3, 5, 7, 9, 5, 7);
Output:
[3, 5, 7, 9]
(6) Question: Filter even numbers from a list.?
Input:
List<Integer> list = Arrays.asList(2, 3, 4, 5, 6);
Output:
[2, 4, 6]
(7) Question: Find the frequency of characters in a string.?
Input:
String input = "banana";
Output:
{b=1, a=3, n=2}
(8) Question: Group words by their first character?
Input:
List<String> words = Arrays.asList("apple", "ant", "banana", "ball", "cat");
Output:
{a=[apple, ant], b=[banana, ball], c=[cat]}
(9) Question: Find the intersection of two lists.?
Input:
List<Integer> list1 = Arrays.asList(1, 2, 3, 4);
List<Integer> list2 = Arrays.asList(3, 4, 5, 6);
Output: [3, 4]
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(10) Question: Merge two maps by summing the values of common keys.?
Input:
Map<String, Integer> map1 = new HashMap<>();
          map1.put("a", 3);
          map1.put("b", 5);
          // Initialize map2
          Map<String, Integer> map2 = new HashMap<>();
          map2.put("b", 7);
          map2.put("c", 2);
Output:
{a=3, b=12, c=2}
(11) Question: Sort a map by its values.?
           Input:
                     Map<String,Integer> map = new HashMap<>();
                     map.put("apple", 3);
                     map.put("banana", 5);
                     map.put("cherry", 1);
           Output:
           {cherry=1, apple=3, banana=5}
(12) Question: Partition a list of numbers into even and odd groups.?
Input:
List<Integer> list = Arrays.asList(1, 2, 3, 4, 5, 6);
Output:
{even=[2, 4, 6], odd=[1, 3, 5]}
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(13) Question: Count the length of each word in a list.?
Input:
List<String> words = Arrays.asList("java", "code", "stream");
Output:
{java=4, code=4, stream=6}

(14) Question: Concatenate all strings in a list.?
Input:
List<String> words = Arrays.asList("hello", "world");
Output: helloworld

(15) Question: Find the first non-repeating character in a string.?
Input:
String input = "swiss";
Output: w
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