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$ python -u "d:\Northeastern\CS4973\final_project\fractional_cascading.py"
Original 2d arrays:
Array 3: [12, 21, 50, 56]
Array 2: [18, 29, 43, 74]
Array 1: [13, 20, 39, 92]
Array 0: [11, 32, 42, 46]
FC arrays:
Array 3: (Original item: 12, 0, 1), (Promoted item: 20, 1, 2), (Original item: 21, 1, 3), (Promoted item: 39, 3, 4), (Original item: 50, 2, 6), (Original item: 56, 3, 6), (Promoted item: 74, 5, -1),
Array 2: (Original item: 18, 0, 1), (Promoted item: 20, 1, 2), (Original item: 29, 1, 3), (Promoted item: 39, 3, 4), (Original item: 43, 2, 6), (Original item: 74, 3, 6), (Promoted item: 92, 5, -1),
Array 1: (Original item: 13, 0, 2), (Original item: 20, 1, 2), (Promoted item: 32, 1, 3), (Original item: 39, 2, 4), (Promoted item: 46, 3, 5), (Original item: 92, 3, -1),
Array 0: (Original item: 11, 0, -1), (Original item: 32, 1, -1), (Original item: 42, 2, -1), (Original item: 46, 3, -1),
Enter the target value: 1
Target value: 1
For array 3: target with value 1 should be inserted at index 0
For array 2: target with value 1 should be inserted at index 0
For array 1: target with value 1 should be inserted at index 0
For array 0: target with value 1 should be inserted at index 0
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Array 1: (Original item: 13, 0, 2), (Original item: 20, 1, 2), (Promoted item: 32, 1, 3), (Original item: 39, 2, 4), (Promoted item: 46, 3, 5), (Original item: 92, 3, -1),
Array 0: (Original item: 11, 0, -1), (Original item: 32, 1, -1), (Original item: 42, 2, -1), (Original item: 46, 3, -1),
Enter the target value: 100
Target value: 100
For array 3: target with value 100 should be inserted at index 4
For array 2: target with value 100 should be inserted at index 4
For array 1: target with value 100 should be inserted at index 4
For array 0: target with value 100 should be inserted at index 4
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Array 0: (Original item: 11, 0, -1), (Original item: 32, 1, -1), (Original item: 42, 2, -1), (Original item: 46, 3, -1),
Enter the target value: 42
Target value: 42
For array 3: target with value 42 should be inserted at index 2
For array 2: target with value 42 should be inserted at index 2
For array 1: target with value 42 should be inserted at index 3
For array 0: target with value 42 is found at index 2
```