In [452…
```python
stack_a = list(range(100)) # [0, 1, 2, ... 96, 97, 98, 99]
import random
random.shuffle(stack_a)
stack_b = []
stack_a
```

Out[452…
```
[74,
 27,
 37,
 36,
 51,
 77,
 1,
 53,
 94,
 30,
 80,
 42,
 40,
 85,
 10,
 54,
 39,
 19,
 79,
 41,
 82,
 84,
 86,
 81,
 35,
 90,
 70,
 89,
 50,
 8,
 88,
 21,
 60,
 48,
 6,
 64,
 11,
 3,
 49,
 99,
 5,
 46,
 22,
 16,
 97,
 17,
 91,
 93,
 98,
 14,
 96,
 18,
 87,
 20,
 76,
 2,
 13,
 33,
 63,
 31,
 23,
```

```
                          56,
                          58,
                          15,
                          62,
                          59,
                          92,
                          9,
                          95,
                          26,
                          61,
                          78,
                          69,
                          73,
                          45,
                          66,
                          44,
                          68,
                          28,
                          67,
                          7,
                          52,
                          43,
                          55,
                          0,
                          57,
                          83,
                          71,
                          12,
                          32,
                          25,
                          47,
                          38,
                          24,
                          75,
                          34,
                          4,
                          72,
                          29,
                          65]
```

In [453…]
```python
import statistics

def half_A_to_B():

    median = statistics.median(stack_a)
    index_list = []
    i = 0
    while (i < len(stack_a)):
        if (stack_a[i] < median):
            stack_b.insert(0, stack_a[i])
            index_list.append(i)
        i += 1
    for i in sorted(index_list, reverse=True):
        stack_a.pop(i)
```

In [454…]
```python
def half_B_to_A():

    median = statistics.median(stack_b)
    index_list = []
    i = 0
    while (i < len(stack_b)):
        if (stack_b[i] > median):
            stack_a.insert(0, stack_b[i])
            index_list.append(i)
        i += 1
    for i in sorted(index_list, reverse=True):
```

```
                    stack_b.pop(i)
            return len(index_list)
```

In [455…
```
def all_B_to_A():

    i = 0
    while (i < len(stack_b)):
            stack_a.append(stack_b[0])
            stack_b.pop(0)
```

In [456…
```
def count_A_to_B(count):
    i = 0

    while (i < count):
            stack_b.insert(0, stack_a[0])
            stack_a.pop(0)
            i += 1
```

In [457…
```
def quick_sort():
    stack_b_len = len(stack_b)
    count = 0

    if (stack_b_len < 6):
        return
    count = half_B_to_A()

    print("-=-=-=-=-\n")
    print("stack_a: " + str(stack_a) + "\n")
    print("stack_b: " + str(stack_b) + "\n")
    print("-=-=-=-=-\n")

    quick_sort()

    print("-=-=-=-=-\n")
    print("stack_a: " + str(stack_a) + "\n")
    print("stack_b: " + str(stack_b) + "\n")
    print("-=-=-=-=-\n")

    stack_b.sort()

    print("-=-=-=-=-\n")
    print("stack_a: " + str(stack_a) + "\n")
    print("stack_b: " + str(stack_b) + "\n")
    print("-=-=-=-=-\n")

    all_B_to_A()

    print("-=-=-=-=-\n")
    print("stack_a: " + str(stack_a) + "\n")
    print("stack_b: " + str(stack_b) + "\n")
    print("-=-=-=-=-\n")

    count_A_to_B(count)

    print("-=-=-=-=-\n")
    print("stack_a: " + str(stack_a) + "\n")
    print("stack_b: " + str(stack_b) + "\n")
    print("-=-=-=-=-\n")

    quick_sort()
```

```
        print("-=-=-=-=-\n")
        print("stack_a: " + str(stack_a) + "\n")
        print("stack_b: " + str(stack_b) + "\n")
        print("-=-=-=-=-\n")

        stack_b.sort()

        print("-=-=-=-=-\n")
        print("stack_a: " + str(stack_a) + "\n")
        print("stack_b: " + str(stack_b) + "\n")
        print("-=-=-=-=-\n")

        all_B_to_A()

        print("-=-=-=-=-\n")
        print("stack_a: " + str(stack_a) + "\n")
        print("stack_b: " + str(stack_b) + "\n")
        print("-=-=-=-=-\n")
```

In [458…
```
half_A_to_B()
quick_sort()
```

-=-=-=-=-

stack_a: [27, 37, 36, 30, 42, 40, 39, 41, 35, 48, 49, 46, 33, 31, 26, 45, 44, 28, 43, 32, 25, 47, 38, 34, 29, 74, 51, 77, 53, 94, 80, 85, 54, 79, 82, 84, 8 6, 81, 90, 70, 89, 50, 88, 60, 64, 99, 97, 91, 93, 98, 96, 87, 76, 63, 56, 58, 62, 59, 92, 95, 61, 78, 69, 73, 66, 68, 67, 52, 55, 57, 83, 71, 75, 72, 65]

stack_b: [4, 24, 12, 0, 7, 9, 15, 23, 13, 2, 20, 18, 14, 17, 16, 22, 5, 3, 11, 6, 21, 8, 19, 10, 1]

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stack_a: [19, 21, 22, 16, 17, 14, 18, 20, 13, 23, 15, 24, 27, 37, 36, 30, 42, 40, 39, 41, 35, 48, 49, 46, 33, 31, 26, 45, 44, 28, 43, 32, 25, 47, 38, 34, 2 9, 74, 51, 77, 53, 94, 80, 85, 54, 79, 82, 84, 86, 81, 90, 70, 89, 50, 88, 60, 64, 99, 97, 91, 93, 98, 96, 87, 76, 63, 56, 58, 62, 59, 92, 95, 61, 78, 69, 7 3, 66, 68, 67, 52, 55, 57, 83, 71, 75, 72, 65]

stack_b: [4, 12, 0, 7, 9, 2, 5, 3, 11, 6, 8, 10, 1]

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stack_a: [10, 8, 11, 9, 7, 12, 19, 21, 22, 16, 17, 14, 18, 20, 13, 23, 15, 24, 27, 37, 36, 30, 42, 40, 39, 41, 35, 48, 49, 46, 33, 31, 26, 45, 44, 28, 43, 3 2, 25, 47, 38, 34, 29, 74, 51, 77, 53, 94, 80, 85, 54, 79, 82, 84, 86, 81, 90, 70, 89, 50, 88, 60, 64, 99, 97, 91, 93, 98, 96, 87, 76, 63, 56, 58, 62, 59, 9 2, 95, 61, 78, 69, 73, 66, 68, 67, 52, 55, 57, 83, 71, 75, 72, 65]

stack_b: [4, 0, 2, 5, 3, 6, 1]

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stack_a: [6, 5, 4, 10, 8, 11, 9, 7, 12, 19, 21, 22, 16, 17, 14, 18, 20, 13, 2 3, 15, 24, 27, 37, 36, 30, 42, 40, 39, 41, 35, 48, 49, 46, 33, 31, 26, 45, 44, 28, 43, 32, 25, 47, 38, 34, 29, 74, 51, 77, 53, 94, 80, 85, 54, 79, 82, 84, 8 6, 81, 90, 70, 89, 50, 88, 60, 64, 99, 97, 91, 93, 98, 96, 87, 76, 63, 56, 58, 62, 59, 92, 95, 61, 78, 69, 73, 66, 68, 67, 52, 55, 57, 83, 71, 75, 72, 65]

```
stack_b: [0, 2, 3, 1]

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stack_a: [6, 5, 4, 10, 8, 11, 9, 7, 12, 19, 21, 22, 16, 17, 14, 18, 20, 13, 2
3, 15, 24, 27, 37, 36, 30, 42, 40, 39, 41, 35, 48, 49, 46, 33, 31, 26, 45, 44,
28, 43, 32, 25, 47, 38, 34, 29, 74, 51, 77, 53, 94, 80, 85, 54, 79, 82, 84, 8
6, 81, 90, 70, 89, 50, 88, 60, 64, 99, 97, 91, 93, 98, 96, 87, 76, 63, 56, 58,
62, 59, 92, 95, 61, 78, 69, 73, 66, 68, 67, 52, 55, 57, 83, 71, 75, 72, 65]

stack_b: [0, 2, 3, 1]

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stack_a: [6, 5, 4, 10, 8, 11, 9, 7, 12, 19, 21, 22, 16, 17, 14, 18, 20, 13, 2
3, 15, 24, 27, 37, 36, 30, 42, 40, 39, 41, 35, 48, 49, 46, 33, 31, 26, 45, 44,
28, 43, 32, 25, 47, 38, 34, 29, 74, 51, 77, 53, 94, 80, 85, 54, 79, 82, 84, 8
6, 81, 90, 70, 89, 50, 88, 60, 64, 99, 97, 91, 93, 98, 96, 87, 76, 63, 56, 58,
62, 59, 92, 95, 61, 78, 69, 73, 66, 68, 67, 52, 55, 57, 83, 71, 75, 72, 65]

stack_b: [0, 1, 2, 3]

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stack_a: [6, 5, 4, 10, 8, 11, 9, 7, 12, 19, 21, 22, 16, 17, 14, 18, 20, 13, 2
3, 15, 24, 27, 37, 36, 30, 42, 40, 39, 41, 35, 48, 49, 46, 33, 31, 26, 45, 44,
28, 43, 32, 25, 47, 38, 34, 29, 74, 51, 77, 53, 94, 80, 85, 54, 79, 82, 84, 8
6, 81, 90, 70, 89, 50, 88, 60, 64, 99, 97, 91, 93, 98, 96, 87, 76, 63, 56, 58,
62, 59, 92, 95, 61, 78, 69, 73, 66, 68, 67, 52, 55, 57, 83, 71, 75, 72, 65, 0,
1, 2, 3]

stack_b: []

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stack_a: [10, 8, 11, 9, 7, 12, 19, 21, 22, 16, 17, 14, 18, 20, 13, 23, 15, 24,
27, 37, 36, 30, 42, 40, 39, 41, 35, 48, 49, 46, 33, 31, 26, 45, 44, 28, 43, 3
2, 25, 47, 38, 34, 29, 74, 51, 77, 53, 94, 80, 85, 54, 79, 82, 84, 86, 81, 90,
70, 89, 50, 88, 60, 64, 99, 97, 91, 93, 98, 96, 87, 76, 63, 56, 58, 62, 59, 9
2, 95, 61, 78, 69, 73, 66, 68, 67, 52, 55, 57, 83, 71, 75, 72, 65, 0, 1, 2, 3]

stack_b: [4, 5, 6]

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stack_a: [10, 8, 11, 9, 7, 12, 19, 21, 22, 16, 17, 14, 18, 20, 13, 23, 15, 24,
27, 37, 36, 30, 42, 40, 39, 41, 35, 48, 49, 46, 33, 31, 26, 45, 44, 28, 43, 3
2, 25, 47, 38, 34, 29, 74, 51, 77, 53, 94, 80, 85, 54, 79, 82, 84, 86, 81, 90,
70, 89, 50, 88, 60, 64, 99, 97, 91, 93, 98, 96, 87, 76, 63, 56, 58, 62, 59, 9
2, 95, 61, 78, 69, 73, 66, 68, 67, 52, 55, 57, 83, 71, 75, 72, 65, 0, 1, 2, 3]

stack_b: [4, 5, 6]

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stack_a: [10, 8, 11, 9, 7, 12, 19, 21, 22, 16, 17, 14, 18, 20, 13, 23, 15, 24,
27, 37, 36, 30, 42, 40, 39, 41, 35, 48, 49, 46, 33, 31, 26, 45, 44, 28, 43, 3
```

```
2, 25, 47, 38, 34, 29, 74, 51, 77, 53, 94, 80, 85, 54, 79, 82, 84, 86, 81, 90,
70, 89, 50, 88, 60, 64, 99, 97, 91, 93, 98, 96, 87, 76, 63, 56, 58, 62, 59, 9
2, 95, 61, 78, 69, 73, 66, 68, 67, 52, 55, 57, 83, 71, 75, 72, 65, 0, 1, 2, 3]

stack_b: [4, 5, 6]

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stack_a: [10, 8, 11, 9, 7, 12, 19, 21, 22, 16, 17, 14, 18, 20, 13, 23, 15, 24,
27, 37, 36, 30, 42, 40, 39, 41, 35, 48, 49, 46, 33, 31, 26, 45, 44, 28, 43, 3
2, 25, 47, 38, 34, 29, 74, 51, 77, 53, 94, 80, 85, 54, 79, 82, 84, 86, 81, 90,
70, 89, 50, 88, 60, 64, 99, 97, 91, 93, 98, 96, 87, 76, 63, 56, 58, 62, 59, 9
2, 95, 61, 78, 69, 73, 66, 68, 67, 52, 55, 57, 83, 71, 75, 72, 65, 0, 1, 2, 3,
4, 5, 6]

stack_b: []

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stack_a: [10, 8, 11, 9, 7, 12, 19, 21, 22, 16, 17, 14, 18, 20, 13, 23, 15, 24,
27, 37, 36, 30, 42, 40, 39, 41, 35, 48, 49, 46, 33, 31, 26, 45, 44, 28, 43, 3
2, 25, 47, 38, 34, 29, 74, 51, 77, 53, 94, 80, 85, 54, 79, 82, 84, 86, 81, 90,
70, 89, 50, 88, 60, 64, 99, 97, 91, 93, 98, 96, 87, 76, 63, 56, 58, 62, 59, 9
2, 95, 61, 78, 69, 73, 66, 68, 67, 52, 55, 57, 83, 71, 75, 72, 65, 0, 1, 2, 3,
4, 5, 6]

stack_b: []

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stack_a: [10, 8, 11, 9, 7, 12, 19, 21, 22, 16, 17, 14, 18, 20, 13, 23, 15, 24,
27, 37, 36, 30, 42, 40, 39, 41, 35, 48, 49, 46, 33, 31, 26, 45, 44, 28, 43, 3
2, 25, 47, 38, 34, 29, 74, 51, 77, 53, 94, 80, 85, 54, 79, 82, 84, 86, 81, 90,
70, 89, 50, 88, 60, 64, 99, 97, 91, 93, 98, 96, 87, 76, 63, 56, 58, 62, 59, 9
2, 95, 61, 78, 69, 73, 66, 68, 67, 52, 55, 57, 83, 71, 75, 72, 65, 0, 1, 2, 3,
4, 5, 6]

stack_b: []

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stack_a: [10, 8, 11, 9, 7, 12, 19, 21, 22, 16, 17, 14, 18, 20, 13, 23, 15, 24,
27, 37, 36, 30, 42, 40, 39, 41, 35, 48, 49, 46, 33, 31, 26, 45, 44, 28, 43, 3
2, 25, 47, 38, 34, 29, 74, 51, 77, 53, 94, 80, 85, 54, 79, 82, 84, 86, 81, 90,
70, 89, 50, 88, 60, 64, 99, 97, 91, 93, 98, 96, 87, 76, 63, 56, 58, 62, 59, 9
2, 95, 61, 78, 69, 73, 66, 68, 67, 52, 55, 57, 83, 71, 75, 72, 65, 0, 1, 2, 3,
4, 5, 6]

stack_b: []

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stack_a: [19, 21, 22, 16, 17, 14, 18, 20, 13, 23, 15, 24, 27, 37, 36, 30, 42,
40, 39, 41, 35, 48, 49, 46, 33, 31, 26, 45, 44, 28, 43, 32, 25, 47, 38, 34, 2
9, 74, 51, 77, 53, 94, 80, 85, 54, 79, 82, 84, 86, 81, 90, 70, 89, 50, 88, 60,
64, 99, 97, 91, 93, 98, 96, 87, 76, 63, 56, 58, 62, 59, 92, 95, 61, 78, 69, 7
3, 66, 68, 67, 52, 55, 57, 83, 71, 75, 72, 65, 0, 1, 2, 3, 4, 5, 6]

stack_b: [12, 7, 9, 11, 8, 10]
```

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stack_a: [10, 11, 12, 19, 21, 22, 16, 17, 14, 18, 20, 13, 23, 15, 24, 27, 37,
36, 30, 42, 40, 39, 41, 35, 48, 49, 46, 33, 31, 26, 45, 44, 28, 43, 32, 25, 4
7, 38, 34, 29, 74, 51, 77, 53, 94, 80, 85, 54, 79, 82, 84, 86, 81, 90, 70, 89,
50, 88, 60, 64, 99, 97, 91, 93, 98, 96, 87, 76, 63, 56, 58, 62, 59, 92, 95, 6
1, 78, 69, 73, 66, 68, 67, 52, 55, 57, 83, 71, 75, 72, 65, 0, 1, 2, 3, 4, 5,
6]

stack_b: [7, 9, 8]

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stack_a: [10, 11, 12, 19, 21, 22, 16, 17, 14, 18, 20, 13, 23, 15, 24, 27, 37,
36, 30, 42, 40, 39, 41, 35, 48, 49, 46, 33, 31, 26, 45, 44, 28, 43, 32, 25, 4
7, 38, 34, 29, 74, 51, 77, 53, 94, 80, 85, 54, 79, 82, 84, 86, 81, 90, 70, 89,
50, 88, 60, 64, 99, 97, 91, 93, 98, 96, 87, 76, 63, 56, 58, 62, 59, 92, 95, 6
1, 78, 69, 73, 66, 68, 67, 52, 55, 57, 83, 71, 75, 72, 65, 0, 1, 2, 3, 4, 5,
6]

stack_b: [7, 9, 8]

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stack_a: [10, 11, 12, 19, 21, 22, 16, 17, 14, 18, 20, 13, 23, 15, 24, 27, 37,
36, 30, 42, 40, 39, 41, 35, 48, 49, 46, 33, 31, 26, 45, 44, 28, 43, 32, 25, 4
7, 38, 34, 29, 74, 51, 77, 53, 94, 80, 85, 54, 79, 82, 84, 86, 81, 90, 70, 89,
50, 88, 60, 64, 99, 97, 91, 93, 98, 96, 87, 76, 63, 56, 58, 62, 59, 92, 95, 6
1, 78, 69, 73, 66, 68, 67, 52, 55, 57, 83, 71, 75, 72, 65, 0, 1, 2, 3, 4, 5,
6]

stack_b: [7, 8, 9]

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stack_a: [10, 11, 12, 19, 21, 22, 16, 17, 14, 18, 20, 13, 23, 15, 24, 27, 37,
36, 30, 42, 40, 39, 41, 35, 48, 49, 46, 33, 31, 26, 45, 44, 28, 43, 32, 25, 4
7, 38, 34, 29, 74, 51, 77, 53, 94, 80, 85, 54, 79, 82, 84, 86, 81, 90, 70, 89,
50, 88, 60, 64, 99, 97, 91, 93, 98, 96, 87, 76, 63, 56, 58, 62, 59, 92, 95, 6
1, 78, 69, 73, 66, 68, 67, 52, 55, 57, 83, 71, 75, 72, 65, 0, 1, 2, 3, 4, 5,
6, 7, 8, 9]

stack_b: []

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stack_a: [19, 21, 22, 16, 17, 14, 18, 20, 13, 23, 15, 24, 27, 37, 36, 30, 42,
40, 39, 41, 35, 48, 49, 46, 33, 31, 26, 45, 44, 28, 43, 32, 25, 47, 38, 34, 2
9, 74, 51, 77, 53, 94, 80, 85, 54, 79, 82, 84, 86, 81, 90, 70, 89, 50, 88, 60,
64, 99, 97, 91, 93, 98, 96, 87, 76, 63, 56, 58, 62, 59, 92, 95, 61, 78, 69, 7
3, 66, 68, 67, 52, 55, 57, 83, 71, 75, 72, 65, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9]

stack_b: [12, 11, 10]

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```

```
stack_a: [19, 21, 22, 16, 17, 14, 18, 20, 13, 23, 15, 24, 27, 37, 36, 30, 42,
40, 39, 41, 35, 48, 49, 46, 33, 31, 26, 45, 44, 28, 43, 32, 25, 47, 38, 34, 2
9, 74, 51, 77, 53, 94, 80, 85, 54, 79, 82, 84, 86, 81, 90, 70, 89, 50, 88, 60,
64, 99, 97, 91, 93, 98, 96, 87, 76, 63, 56, 58, 62, 59, 92, 95, 61, 78, 69, 7
3, 66, 68, 67, 52, 55, 57, 83, 71, 75, 72, 65, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9]

stack_b: [12, 11, 10]

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stack_a: [19, 21, 22, 16, 17, 14, 18, 20, 13, 23, 15, 24, 27, 37, 36, 30, 42,
40, 39, 41, 35, 48, 49, 46, 33, 31, 26, 45, 44, 28, 43, 32, 25, 47, 38, 34, 2
9, 74, 51, 77, 53, 94, 80, 85, 54, 79, 82, 84, 86, 81, 90, 70, 89, 50, 88, 60,
64, 99, 97, 91, 93, 98, 96, 87, 76, 63, 56, 58, 62, 59, 92, 95, 61, 78, 69, 7
3, 66, 68, 67, 52, 55, 57, 83, 71, 75, 72, 65, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9]

stack_b: [10, 11, 12]

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stack_a: [19, 21, 22, 16, 17, 14, 18, 20, 13, 23, 15, 24, 27, 37, 36, 30, 42,
40, 39, 41, 35, 48, 49, 46, 33, 31, 26, 45, 44, 28, 43, 32, 25, 47, 38, 34, 2
9, 74, 51, 77, 53, 94, 80, 85, 54, 79, 82, 84, 86, 81, 90, 70, 89, 50, 88, 60,
64, 99, 97, 91, 93, 98, 96, 87, 76, 63, 56, 58, 62, 59, 92, 95, 61, 78, 69, 7
3, 66, 68, 67, 52, 55, 57, 83, 71, 75, 72, 65, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 1
0, 11, 12]

stack_b: []

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stack_a: [19, 21, 22, 16, 17, 14, 18, 20, 13, 23, 15, 24, 27, 37, 36, 30, 42,
40, 39, 41, 35, 48, 49, 46, 33, 31, 26, 45, 44, 28, 43, 32, 25, 47, 38, 34, 2
9, 74, 51, 77, 53, 94, 80, 85, 54, 79, 82, 84, 86, 81, 90, 70, 89, 50, 88, 60,
64, 99, 97, 91, 93, 98, 96, 87, 76, 63, 56, 58, 62, 59, 92, 95, 61, 78, 69, 7
3, 66, 68, 67, 52, 55, 57, 83, 71, 75, 72, 65, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 1
0, 11, 12]

stack_b: []

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–=–=–=–=–=–

stack_a: [19, 21, 22, 16, 17, 14, 18, 20, 13, 23, 15, 24, 27, 37, 36, 30, 42,
40, 39, 41, 35, 48, 49, 46, 33, 31, 26, 45, 44, 28, 43, 32, 25, 47, 38, 34, 2
9, 74, 51, 77, 53, 94, 80, 85, 54, 79, 82, 84, 86, 81, 90, 70, 89, 50, 88, 60,
64, 99, 97, 91, 93, 98, 96, 87, 76, 63, 56, 58, 62, 59, 92, 95, 61, 78, 69, 7
3, 66, 68, 67, 52, 55, 57, 83, 71, 75, 72, 65, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 1
0, 11, 12]

stack_b: []

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stack_a: [19, 21, 22, 16, 17, 14, 18, 20, 13, 23, 15, 24, 27, 37, 36, 30, 42,
40, 39, 41, 35, 48, 49, 46, 33, 31, 26, 45, 44, 28, 43, 32, 25, 47, 38, 34, 2
9, 74, 51, 77, 53, 94, 80, 85, 54, 79, 82, 84, 86, 81, 90, 70, 89, 50, 88, 60,
64, 99, 97, 91, 93, 98, 96, 87, 76, 63, 56, 58, 62, 59, 92, 95, 61, 78, 69, 7
3, 66, 68, 67, 52, 55, 57, 83, 71, 75, 72, 65, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 1
0, 11, 12]
```

```
stack_b: []

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stack_a: [19, 21, 22, 16, 17, 14, 18, 20, 13, 23, 15, 24, 27, 37, 36, 30, 42,
40, 39, 41, 35, 48, 49, 46, 33, 31, 26, 45, 44, 28, 43, 32, 25, 47, 38, 34, 2
9, 74, 51, 77, 53, 94, 80, 85, 54, 79, 82, 84, 86, 81, 90, 70, 89, 50, 88, 60,
64, 99, 97, 91, 93, 98, 96, 87, 76, 63, 56, 58, 62, 59, 92, 95, 61, 78, 69, 7
3, 66, 68, 67, 52, 55, 57, 83, 71, 75, 72, 65, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 1
0, 11, 12]

stack_b: []

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stack_a: [19, 21, 22, 16, 17, 14, 18, 20, 13, 23, 15, 24, 27, 37, 36, 30, 42,
40, 39, 41, 35, 48, 49, 46, 33, 31, 26, 45, 44, 28, 43, 32, 25, 47, 38, 34, 2
9, 74, 51, 77, 53, 94, 80, 85, 54, 79, 82, 84, 86, 81, 90, 70, 89, 50, 88, 60,
64, 99, 97, 91, 93, 98, 96, 87, 76, 63, 56, 58, 62, 59, 92, 95, 61, 78, 69, 7
3, 66, 68, 67, 52, 55, 57, 83, 71, 75, 72, 65, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 1
0, 11, 12]

stack_b: []

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stack_a: [19, 21, 22, 16, 17, 14, 18, 20, 13, 23, 15, 24, 27, 37, 36, 30, 42,
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9, 74, 51, 77, 53, 94, 80, 85, 54, 79, 82, 84, 86, 81, 90, 70, 89, 50, 88, 60,
64, 99, 97, 91, 93, 98, 96, 87, 76, 63, 56, 58, 62, 59, 92, 95, 61, 78, 69, 7
3, 66, 68, 67, 52, 55, 57, 83, 71, 75, 72, 65, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 1
0, 11, 12]

stack_b: []

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stack_a: [27, 37, 36, 30, 42, 40, 39, 41, 35, 48, 49, 46, 33, 31, 26, 45, 44,
28, 43, 32, 25, 47, 38, 34, 29, 74, 51, 77, 53, 94, 80, 85, 54, 79, 82, 84, 8
6, 81, 90, 70, 89, 50, 88, 60, 64, 99, 97, 91, 93, 98, 96, 87, 76, 63, 56, 58,
62, 59, 92, 95, 61, 78, 69, 73, 66, 68, 67, 52, 55, 57, 83, 71, 75, 72, 65, 0,
1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12]

stack_b: [24, 15, 23, 13, 20, 18, 14, 17, 16, 22, 21, 19]

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stack_a: [19, 21, 22, 20, 23, 24, 27, 37, 36, 30, 42, 40, 39, 41, 35, 48, 49,
46, 33, 31, 26, 45, 44, 28, 43, 32, 25, 47, 38, 34, 29, 74, 51, 77, 53, 94, 8
0, 85, 54, 79, 82, 84, 86, 81, 90, 70, 89, 50, 88, 60, 64, 99, 97, 91, 93, 98,
96, 87, 76, 63, 56, 58, 62, 59, 92, 95, 61, 78, 69, 73, 66, 68, 67, 52, 55, 5
7, 83, 71, 75, 72, 65, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12]

stack_b: [15, 13, 18, 14, 17, 16]

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stack_a: [16, 17, 18, 19, 21, 22, 20, 23, 24, 27, 37, 36, 30, 42, 40, 39, 41,
35, 48, 49, 46, 33, 31, 26, 45, 44, 28, 43, 32, 25, 47, 38, 34, 29, 74, 51, 7
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91, 93, 98, 96, 87, 76, 63, 56, 58, 62, 59, 92, 95, 61, 78, 69, 73, 66, 68, 6
7, 52, 55, 57, 83, 71, 75, 72, 65, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12]

stack_b: [15, 13, 14]

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stack_a: [16, 17, 18, 19, 21, 22, 20, 23, 24, 27, 37, 36, 30, 42, 40, 39, 41,
35, 48, 49, 46, 33, 31, 26, 45, 44, 28, 43, 32, 25, 47, 38, 34, 29, 74, 51, 7
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91, 93, 98, 96, 87, 76, 63, 56, 58, 62, 59, 92, 95, 61, 78, 69, 73, 66, 68, 6
7, 52, 55, 57, 83, 71, 75, 72, 65, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12]

stack_b: [15, 13, 14]

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stack_a: [16, 17, 18, 19, 21, 22, 20, 23, 24, 27, 37, 36, 30, 42, 40, 39, 41,
35, 48, 49, 46, 33, 31, 26, 45, 44, 28, 43, 32, 25, 47, 38, 34, 29, 74, 51, 7
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91, 93, 98, 96, 87, 76, 63, 56, 58, 62, 59, 92, 95, 61, 78, 69, 73, 66, 68, 6
7, 52, 55, 57, 83, 71, 75, 72, 65, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12]

stack_b: [13, 14, 15]

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stack_a: [16, 17, 18, 19, 21, 22, 20, 23, 24, 27, 37, 36, 30, 42, 40, 39, 41,
35, 48, 49, 46, 33, 31, 26, 45, 44, 28, 43, 32, 25, 47, 38, 34, 29, 74, 51, 7
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91, 93, 98, 96, 87, 76, 63, 56, 58, 62, 59, 92, 95, 61, 78, 69, 73, 66, 68, 6
7, 52, 55, 57, 83, 71, 75, 72, 65, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 1
3, 14, 15]

stack_b: []

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stack_a: [19, 21, 22, 20, 23, 24, 27, 37, 36, 30, 42, 40, 39, 41, 35, 48, 49,
46, 33, 31, 26, 45, 44, 28, 43, 32, 25, 47, 38, 34, 29, 74, 51, 77, 53, 94, 8
0, 85, 54, 79, 82, 84, 86, 81, 90, 70, 89, 50, 88, 60, 64, 99, 97, 91, 93, 98,
96, 87, 76, 63, 56, 58, 62, 59, 92, 95, 61, 78, 69, 73, 66, 68, 67, 52, 55, 5
7, 83, 71, 75, 72, 65, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15]

stack_b: [18, 17, 16]

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stack_a: [19, 21, 22, 20, 23, 24, 27, 37, 36, 30, 42, 40, 39, 41, 35, 48, 49,
46, 33, 31, 26, 45, 44, 28, 43, 32, 25, 47, 38, 34, 29, 74, 51, 77, 53, 94, 8
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96, 87, 76, 63, 56, 58, 62, 59, 92, 95, 61, 78, 69, 73, 66, 68, 67, 52, 55, 5
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stack_b: [18, 17, 16]

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stack_a: [19, 21, 22, 20, 23, 24, 27, 37, 36, 30, 42, 40, 39, 41, 35, 48, 49,
46, 33, 31, 26, 45, 44, 28, 43, 32, 25, 47, 38, 34, 29, 74, 51, 77, 53, 94, 8
0, 85, 54, 79, 82, 84, 86, 81, 90, 70, 89, 50, 88, 60, 64, 99, 97, 91, 93, 98,
96, 87, 76, 63, 56, 58, 62, 59, 92, 95, 61, 78, 69, 73, 66, 68, 67, 52, 55, 5
7, 83, 71, 75, 72, 65, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15]

stack_b: [16, 17, 18]

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stack_a: [19, 21, 22, 20, 23, 24, 27, 37, 36, 30, 42, 40, 39, 41, 35, 48, 49,
46, 33, 31, 26, 45, 44, 28, 43, 32, 25, 47, 38, 34, 29, 74, 51, 77, 53, 94, 8
0, 85, 54, 79, 82, 84, 86, 81, 90, 70, 89, 50, 88, 60, 64, 99, 97, 91, 93, 98,
96, 87, 76, 63, 56, 58, 62, 59, 92, 95, 61, 78, 69, 73, 66, 68, 67, 52, 55, 5
7, 83, 71, 75, 72, 65, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 1
6, 17, 18]

stack_b: []

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stack_a: [19, 21, 22, 20, 23, 24, 27, 37, 36, 30, 42, 40, 39, 41, 35, 48, 49,
46, 33, 31, 26, 45, 44, 28, 43, 32, 25, 47, 38, 34, 29, 74, 51, 77, 53, 94, 8
0, 85, 54, 79, 82, 84, 86, 81, 90, 70, 89, 50, 88, 60, 64, 99, 97, 91, 93, 98,
96, 87, 76, 63, 56, 58, 62, 59, 92, 95, 61, 78, 69, 73, 66, 68, 67, 52, 55, 5
7, 83, 71, 75, 72, 65, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 1
6, 17, 18]

stack_b: []

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stack_a: [19, 21, 22, 20, 23, 24, 27, 37, 36, 30, 42, 40, 39, 41, 35, 48, 49,
46, 33, 31, 26, 45, 44, 28, 43, 32, 25, 47, 38, 34, 29, 74, 51, 77, 53, 94, 8
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96, 87, 76, 63, 56, 58, 62, 59, 92, 95, 61, 78, 69, 73, 66, 68, 67, 52, 55, 5
7, 83, 71, 75, 72, 65, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 1
6, 17, 18]

stack_b: []

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stack_a: [19, 21, 22, 20, 23, 24, 27, 37, 36, 30, 42, 40, 39, 41, 35, 48, 49,
46, 33, 31, 26, 45, 44, 28, 43, 32, 25, 47, 38, 34, 29, 74, 51, 77, 53, 94, 8
0, 85, 54, 79, 82, 84, 86, 81, 90, 70, 89, 50, 88, 60, 64, 99, 97, 91, 93, 98,
96, 87, 76, 63, 56, 58, 62, 59, 92, 95, 61, 78, 69, 73, 66, 68, 67, 52, 55, 5
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6, 17, 18]

stack_b: []

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stack_a: [27, 37, 36, 30, 42, 40, 39, 41, 35, 48, 49, 46, 33, 31, 26, 45, 44,
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62, 59, 92, 95, 61, 78, 69, 73, 66, 68, 67, 52, 55, 57, 83, 71, 75, 72, 65, 0,
1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18]

stack_b: [24, 23, 20, 22, 21, 19]

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stack_a: [22, 23, 24, 27, 37, 36, 30, 42, 40, 39, 41, 35, 48, 49, 46, 33, 31,
26, 45, 44, 28, 43, 32, 25, 47, 38, 34, 29, 74, 51, 77, 53, 94, 80, 85, 54, 7
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63, 56, 58, 62, 59, 92, 95, 61, 78, 69, 73, 66, 68, 67, 52, 55, 57, 83, 71, 7
5, 72, 65, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18]

stack_b: [20, 21, 19]

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stack_a: [22, 23, 24, 27, 37, 36, 30, 42, 40, 39, 41, 35, 48, 49, 46, 33, 31,
26, 45, 44, 28, 43, 32, 25, 47, 38, 34, 29, 74, 51, 77, 53, 94, 80, 85, 54, 7
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63, 56, 58, 62, 59, 92, 95, 61, 78, 69, 73, 66, 68, 67, 52, 55, 57, 83, 71, 7
5, 72, 65, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18]

stack_b: [20, 21, 19]

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stack_a: [22, 23, 24, 27, 37, 36, 30, 42, 40, 39, 41, 35, 48, 49, 46, 33, 31,
26, 45, 44, 28, 43, 32, 25, 47, 38, 34, 29, 74, 51, 77, 53, 94, 80, 85, 54, 7
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63, 56, 58, 62, 59, 92, 95, 61, 78, 69, 73, 66, 68, 67, 52, 55, 57, 83, 71, 7
5, 72, 65, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18]

stack_b: [19, 20, 21]

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stack_a: [22, 23, 24, 27, 37, 36, 30, 42, 40, 39, 41, 35, 48, 49, 46, 33, 31,
26, 45, 44, 28, 43, 32, 25, 47, 38, 34, 29, 74, 51, 77, 53, 94, 80, 85, 54, 7
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63, 56, 58, 62, 59, 92, 95, 61, 78, 69, 73, 66, 68, 67, 52, 55, 57, 83, 71, 7
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9, 20, 21]

stack_b: []

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stack_a: [27, 37, 36, 30, 42, 40, 39, 41, 35, 48, 49, 46, 33, 31, 26, 45, 44,
28, 43, 32, 25, 47, 38, 34, 29, 74, 51, 77, 53, 94, 80, 85, 54, 79, 82, 84, 8
6, 81, 90, 70, 89, 50, 88, 60, 64, 99, 97, 91, 93, 98, 96, 87, 76, 63, 56, 58,
62, 59, 92, 95, 61, 78, 69, 73, 66, 68, 67, 52, 55, 57, 83, 71, 75, 72, 65, 0,
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stack_b: [24, 23, 22]
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stack_a: [27, 37, 36, 30, 42, 40, 39, 41, 35, 48, 49, 46, 33, 31, 26, 45, 44,
28, 43, 32, 25, 47, 38, 34, 29, 74, 51, 77, 53, 94, 80, 85, 54, 79, 82, 84, 8
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62, 59, 92, 95, 61, 78, 69, 73, 66, 68, 67, 52, 55, 57, 83, 71, 75, 72, 65, 0,
1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21]

stack_b: [24, 23, 22]

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stack_a: [27, 37, 36, 30, 42, 40, 39, 41, 35, 48, 49, 46, 33, 31, 26, 45, 44,
28, 43, 32, 25, 47, 38, 34, 29, 74, 51, 77, 53, 94, 80, 85, 54, 79, 82, 84, 8
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62, 59, 92, 95, 61, 78, 69, 73, 66, 68, 67, 52, 55, 57, 83, 71, 75, 72, 65, 0,
1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21]

stack_b: [22, 23, 24]

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stack_a: [27, 37, 36, 30, 42, 40, 39, 41, 35, 48, 49, 46, 33, 31, 26, 45, 44,
28, 43, 32, 25, 47, 38, 34, 29, 74, 51, 77, 53, 94, 80, 85, 54, 79, 82, 84, 8
6, 81, 90, 70, 89, 50, 88, 60, 64, 99, 97, 91, 93, 98, 96, 87, 76, 63, 56, 58,
62, 59, 92, 95, 61, 78, 69, 73, 66, 68, 67, 52, 55, 57, 83, 71, 75, 72, 65, 0,
1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22,
23, 24]

stack_b: []

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stack_a: [27, 37, 36, 30, 42, 40, 39, 41, 35, 48, 49, 46, 33, 31, 26, 45, 44,
28, 43, 32, 25, 47, 38, 34, 29, 74, 51, 77, 53, 94, 80, 85, 54, 79, 82, 84, 8
6, 81, 90, 70, 89, 50, 88, 60, 64, 99, 97, 91, 93, 98, 96, 87, 76, 63, 56, 58,
62, 59, 92, 95, 61, 78, 69, 73, 66, 68, 67, 52, 55, 57, 83, 71, 75, 72, 65, 0,
1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22,
23, 24]

stack_b: []

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stack_a: [27, 37, 36, 30, 42, 40, 39, 41, 35, 48, 49, 46, 33, 31, 26, 45, 44,
28, 43, 32, 25, 47, 38, 34, 29, 74, 51, 77, 53, 94, 80, 85, 54, 79, 82, 84, 8
6, 81, 90, 70, 89, 50, 88, 60, 64, 99, 97, 91, 93, 98, 96, 87, 76, 63, 56, 58,
62, 59, 92, 95, 61, 78, 69, 73, 66, 68, 67, 52, 55, 57, 83, 71, 75, 72, 65, 0,
1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22,
23, 24]

stack_b: []

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stack_a: [27, 37, 36, 30, 42, 40, 39, 41, 35, 48, 49, 46, 33, 31, 26, 45, 44,
28, 43, 32, 25, 47, 38, 34, 29, 74, 51, 77, 53, 94, 80, 85, 54, 79, 82, 84, 8
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23, 24]
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stack_b: []

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stack_a: [27, 37, 36, 30, 42, 40, 39, 41, 35, 48, 49, 46, 33, 31, 26, 45, 44,
28, 43, 32, 25, 47, 38, 34, 29, 74, 51, 77, 53, 94, 80, 85, 54, 79, 82, 84, 8
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62, 59, 92, 95, 61, 78, 69, 73, 66, 68, 67, 52, 55, 57, 83, 71, 75, 72, 65, 0,
1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22,
23, 24]
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stack_b: []

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stack_a: [27, 37, 36, 30, 42, 40, 39, 41, 35, 48, 49, 46, 33, 31, 26, 45, 44,
28, 43, 32, 25, 47, 38, 34, 29, 74, 51, 77, 53, 94, 80, 85, 54, 79, 82, 84, 8
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62, 59, 92, 95, 61, 78, 69, 73, 66, 68, 67, 52, 55, 57, 83, 71, 75, 72, 65, 0,
1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22,
23, 24]
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stack_b: []

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stack_a: [27, 37, 36, 30, 42, 40, 39, 41, 35, 48, 49, 46, 33, 31, 26, 45, 44,
28, 43, 32, 25, 47, 38, 34, 29, 74, 51, 77, 53, 94, 80, 85, 54, 79, 82, 84, 8
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62, 59, 92, 95, 61, 78, 69, 73, 66, 68, 67, 52, 55, 57, 83, 71, 75, 72, 65, 0,
1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22,
23, 24]
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stack_b: []

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stack_a: [27, 37, 36, 30, 42, 40, 39, 41, 35, 48, 49, 46, 33, 31, 26, 45, 44,
28, 43, 32, 25, 47, 38, 34, 29, 74, 51, 77, 53, 94, 80, 85, 54, 79, 82, 84, 8
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62, 59, 92, 95, 61, 78, 69, 73, 66, 68, 67, 52, 55, 57, 83, 71, 75, 72, 65, 0,
1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22,
23, 24]
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stack_b: []

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stack_a: [27, 37, 36, 30, 42, 40, 39, 41, 35, 48, 49, 46, 33, 31, 26, 45, 44,
28, 43, 32, 25, 47, 38, 34, 29, 74, 51, 77, 53, 94, 80, 85, 54, 79, 82, 84, 8
6, 81, 90, 70, 89, 50, 88, 60, 64, 99, 97, 91, 93, 98, 96, 87, 76, 63, 56, 58,
62, 59, 92, 95, 61, 78, 69, 73, 66, 68, 67, 52, 55, 57, 83, 71, 75, 72, 65, 0,
1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22,
23, 24]

stack_b: []

_=_=_=_=_=_

_=_=_=_=_=_

stack_a: [74, 51, 77, 53, 94, 80, 85, 54, 79, 82, 84, 86, 81, 90, 70, 89, 50,
88, 60, 64, 99, 97, 91, 93, 98, 96, 87, 76, 63, 56, 58, 62, 59, 92, 95, 61, 7
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8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24]

stack_b: [29, 34, 38, 47, 25, 32, 43, 28, 44, 45, 26, 31, 33, 46, 49, 48, 35,
41, 39, 40, 42, 30, 36, 37, 27]

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stack_a: [42, 40, 39, 41, 48, 49, 46, 45, 44, 43, 47, 38, 74, 51, 77, 53, 94,
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8, 96, 87, 76, 63, 56, 58, 62, 59, 92, 95, 61, 78, 69, 73, 66, 68, 67, 52, 55,
57, 83, 71, 75, 72, 65, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15,
16, 17, 18, 19, 20, 21, 22, 23, 24]

stack_b: [29, 34, 25, 32, 28, 26, 31, 33, 35, 30, 36, 37, 27]

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_=_=_=_=_=_

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0, 64, 99, 97, 91, 93, 98, 96, 87, 76, 63, 56, 58, 62, 59, 92, 95, 61, 78, 69,
73, 66, 68, 67, 52, 55, 57, 83, 71, 75, 72, 65, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9,
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stack_b: [29, 25, 28, 26, 31, 30, 27]

_=_=_=_=_=_

_=_=_=_=_=_

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61, 78, 69, 73, 66, 68, 67, 52, 55, 57, 83, 71, 75, 72, 65, 0, 1, 2, 3, 4, 5,
6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24]

stack_b: [25, 28, 26, 27]

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_=_=_=_=_=_

stack_a: [30, 31, 29, 37, 36, 35, 33, 32, 34, 42, 40, 39, 41, 48, 49, 46, 45,
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61, 78, 69, 73, 66, 68, 67, 52, 55, 57, 83, 71, 75, 72, 65, 0, 1, 2, 3, 4, 5,
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stack_b: [25, 28, 26, 27]

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stack_a: [30, 31, 29, 37, 36, 35, 33, 32, 34, 42, 40, 39, 41, 48, 49, 46, 45,
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6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24]

stack_b: [25, 26, 27, 28]

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stack_a: [30, 31, 29, 37, 36, 35, 33, 32, 34, 42, 40, 39, 41, 48, 49, 46, 45,
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6, 27, 28]

stack_b: []

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stack_a: [37, 36, 35, 33, 32, 34, 42, 40, 39, 41, 48, 49, 46, 45, 44, 43, 47,
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10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28]

stack_b: [29, 31, 30]

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stack_a: [37, 36, 35, 33, 32, 34, 42, 40, 39, 41, 48, 49, 46, 45, 44, 43, 47,
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10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28]

stack_b: [29, 31, 30]

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stack_a: [37, 36, 35, 33, 32, 34, 42, 40, 39, 41, 48, 49, 46, 45, 44, 43, 47,
38, 74, 51, 77, 53, 94, 80, 85, 54, 79, 82, 84, 86, 81, 90, 70, 89, 50, 88, 6
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stack_b: [29, 30, 31]

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9, 30, 31]

stack_b: []

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stack_b: []

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9, 30, 31]

stack_b: []

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stack_a: [37, 36, 35, 33, 32, 34, 42, 40, 39, 41, 48, 49, 46, 45, 44, 43, 47,
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10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 2
9, 30, 31]

stack_b: []

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57, 83, 71, 75, 72, 65, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15,
16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31]

stack_b: [34, 32, 33, 35, 36, 37]

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stack_a: [37, 36, 35, 42, 40, 39, 41, 48, 49, 46, 45, 44, 43, 47, 38, 74, 51,
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67, 52, 55, 57, 83, 71, 75, 72, 65, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12,
13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31]

stack_b: [34, 32, 33]

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stack_a: [37, 36, 35, 42, 40, 39, 41, 48, 49, 46, 45, 44, 43, 47, 38, 74, 51,
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67, 52, 55, 57, 83, 71, 75, 72, 65, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12,
13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31]

stack_b: [34, 32, 33]

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stack_a: [37, 36, 35, 42, 40, 39, 41, 48, 49, 46, 45, 44, 43, 47, 38, 74, 51,
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7, 91, 93, 98, 96, 87, 76, 63, 56, 58, 62, 59, 92, 95, 61, 78, 69, 73, 66, 68,
67, 52, 55, 57, 83, 71, 75, 72, 65, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12,
13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31]

stack_b: [32, 33, 34]

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stack_a: [37, 36, 35, 42, 40, 39, 41, 48, 49, 46, 45, 44, 43, 47, 38, 74, 51,
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7, 91, 93, 98, 96, 87, 76, 63, 56, 58, 62, 59, 92, 95, 61, 78, 69, 73, 66, 68,
67, 52, 55, 57, 83, 71, 75, 72, 65, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12,
13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 3
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stack_b: []

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57, 83, 71, 75, 72, 65, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15,
16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34]

stack_b: [35, 36, 37]

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stack_a: [42, 40, 39, 41, 48, 49, 46, 45, 44, 43, 47, 38, 74, 51, 77, 53, 94,
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16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34]

stack_b: [35, 36, 37]

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57, 83, 71, 75, 72, 65, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15,
16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34]

stack_b: [35, 36, 37]

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stack_a: [42, 40, 39, 41, 48, 49, 46, 45, 44, 43, 47, 38, 74, 51, 77, 53, 94,
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8, 96, 87, 76, 63, 56, 58, 62, 59, 92, 95, 61, 78, 69, 73, 66, 68, 67, 52, 55,
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16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 3
5, 36, 37]

stack_b: []

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stack_a: [42, 40, 39, 41, 48, 49, 46, 45, 44, 43, 47, 38, 74, 51, 77, 53, 94,
80, 85, 54, 79, 82, 84, 86, 81, 90, 70, 89, 50, 88, 60, 64, 99, 97, 91, 93, 9
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16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 3
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stack_b: []

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stack_a: [42, 40, 39, 41, 48, 49, 46, 45, 44, 43, 47, 38, 74, 51, 77, 53, 94,
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16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 3
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stack_b: []

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stack_a: [42, 40, 39, 41, 48, 49, 46, 45, 44, 43, 47, 38, 74, 51, 77, 53, 94,
80, 85, 54, 79, 82, 84, 86, 81, 90, 70, 89, 50, 88, 60, 64, 99, 97, 91, 93, 9
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16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 3
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stack_b: []

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stack_a: [42, 40, 39, 41, 48, 49, 46, 45, 44, 43, 47, 38, 74, 51, 77, 53, 94,
80, 85, 54, 79, 82, 84, 86, 81, 90, 70, 89, 50, 88, 60, 64, 99, 97, 91, 93, 9
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57, 83, 71, 75, 72, 65, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15,
16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 3
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stack_b: []

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16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 3
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stack_b: []

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16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 3
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stack_b: []

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8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27,
28, 29, 30, 31, 32, 33, 34, 35, 36, 37]
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stack_b: [38, 47, 43, 44, 45, 46, 49, 48, 41, 39, 40, 42]

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22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37]
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stack_b: [38, 43, 41, 39, 40, 42]

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79, 82, 84, 86, 81, 90, 70, 89, 50, 88, 60, 64, 99, 97, 91, 93, 98, 96, 87, 7
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19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37]
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stack_b: [38, 39, 40]

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6, 63, 56, 58, 62, 59, 92, 95, 61, 78, 69, 73, 66, 68, 67, 52, 55, 57, 83, 71,
75, 72, 65, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18,
19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37]

stack_b: [38, 39, 40]

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stack_a: [42, 41, 43, 48, 49, 46, 45, 44, 47, 74, 51, 77, 53, 94, 80, 85, 54,
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75, 72, 65, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18,
19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37]

stack_b: [38, 39, 40]

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stack_a: [42, 41, 43, 48, 49, 46, 45, 44, 47, 74, 51, 77, 53, 94, 80, 85, 54,
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19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 3
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stack_b: []

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stack_a: [48, 49, 46, 45, 44, 47, 74, 51, 77, 53, 94, 80, 85, 54, 79, 82, 84,
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stack_b: []

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stack_b: []

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stack_b: []

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stack_b: [47, 44, 45, 46, 49, 48]

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stack_b: [44, 45, 46]

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stack_b: [44, 45, 46]

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stack_b: [44, 45, 46]

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stack_b: []

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stack_b: [47, 49, 48]

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stack_b: [47, 49, 48]

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stack_b: [47, 48, 49]

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stack_b: []

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stack_b: []

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stack_b: []

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stack_b: []

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stack_b: []

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stack_b: []

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