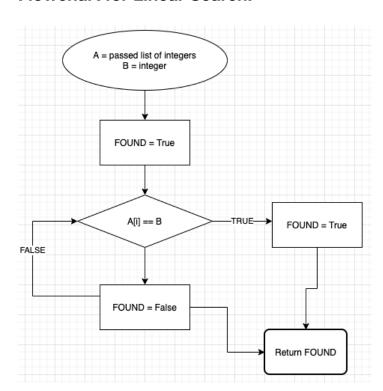
Linear Search pseudocode

```
A = passed list of integers
FOUND = True

Loop N from 0 to len(A)-1:
    if A[i] == B:
        FOUND = True
    else:
        FOUND = False
    end if
End loop

Return found
```

Flowchart for Linear Search:

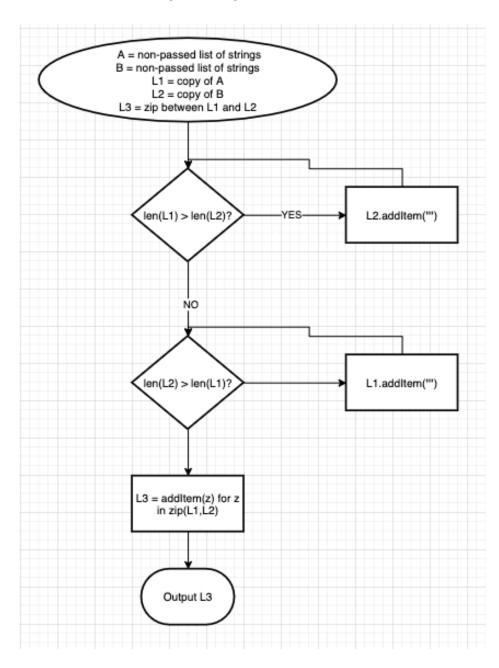


Trace Table for Linear Search:

I	I < len(A)	A[i]	A[i] == B or FOUND
0	0 < 9, True	0	FALSE
1	1 < 9, True	1	FALSE
2	2 < 9, True	2	FALSE
3	3 < 9, True	3	FALSE
4	4 < 9, True	4	TRUE
5	5 < 9, True	5	FALSE
6	6 < 9, True	6	FALSE
7	7 < 9, True	7	FALSE
8	8 < 9, True	8	FALSE
9	9<9, True	9	FALSE

Merge Strings pseudocode

Flowchart for merge Strings



Trace Table for Merge Strings

```
a = ["one", "two", "three", "four"]
b = ["one", "two", "three","four", "five"]
```

len(L1)	len(L2)	L1[i]	L2[i]	len(L2) > len(L1), True, new len(L1)
0	0	"one"	"one"	0 —> "one"
1	1	"two"	"two"	1 —> "two"
2	2	"three"	"three"	2 -> "three"
3	3	"four"	"four"	3 —> "four"
	4		"five"	4 -> ""