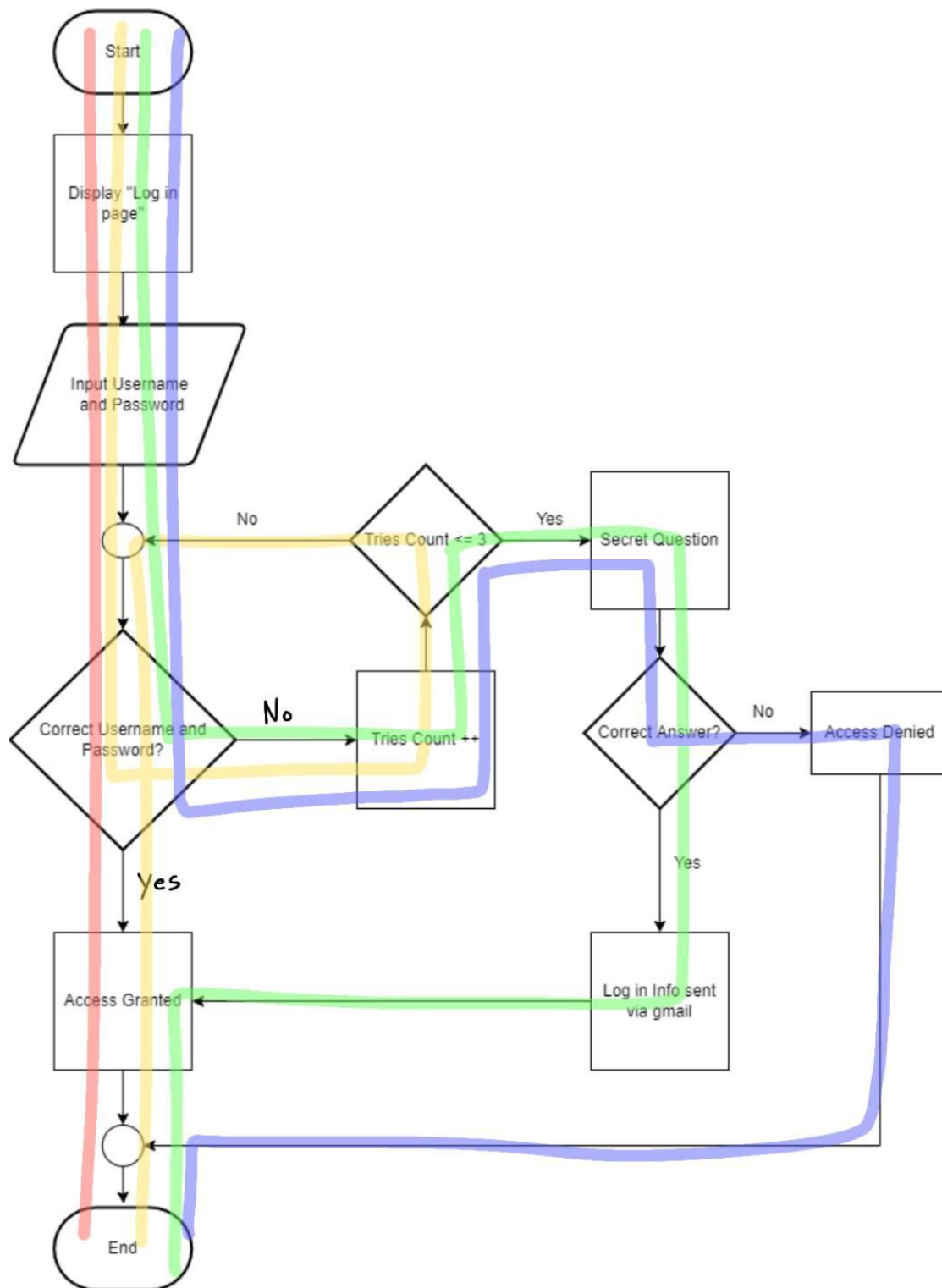


Scenario 1 - Log in Attempt

Flowchart:



Pseudocode:

```
START
1  Display the login page
2  Input username and password
3  If both the username and password are matched
4      Then access is granted
5  Else
6      Try again
7      If trying again and it matches in less than 3 tries
8          Then access is granted
9  Else
10     Have to answer the secret question
11         If the answer the secret question correctly
12             Then access is granted
13         Else
14             Access is denied
END
```

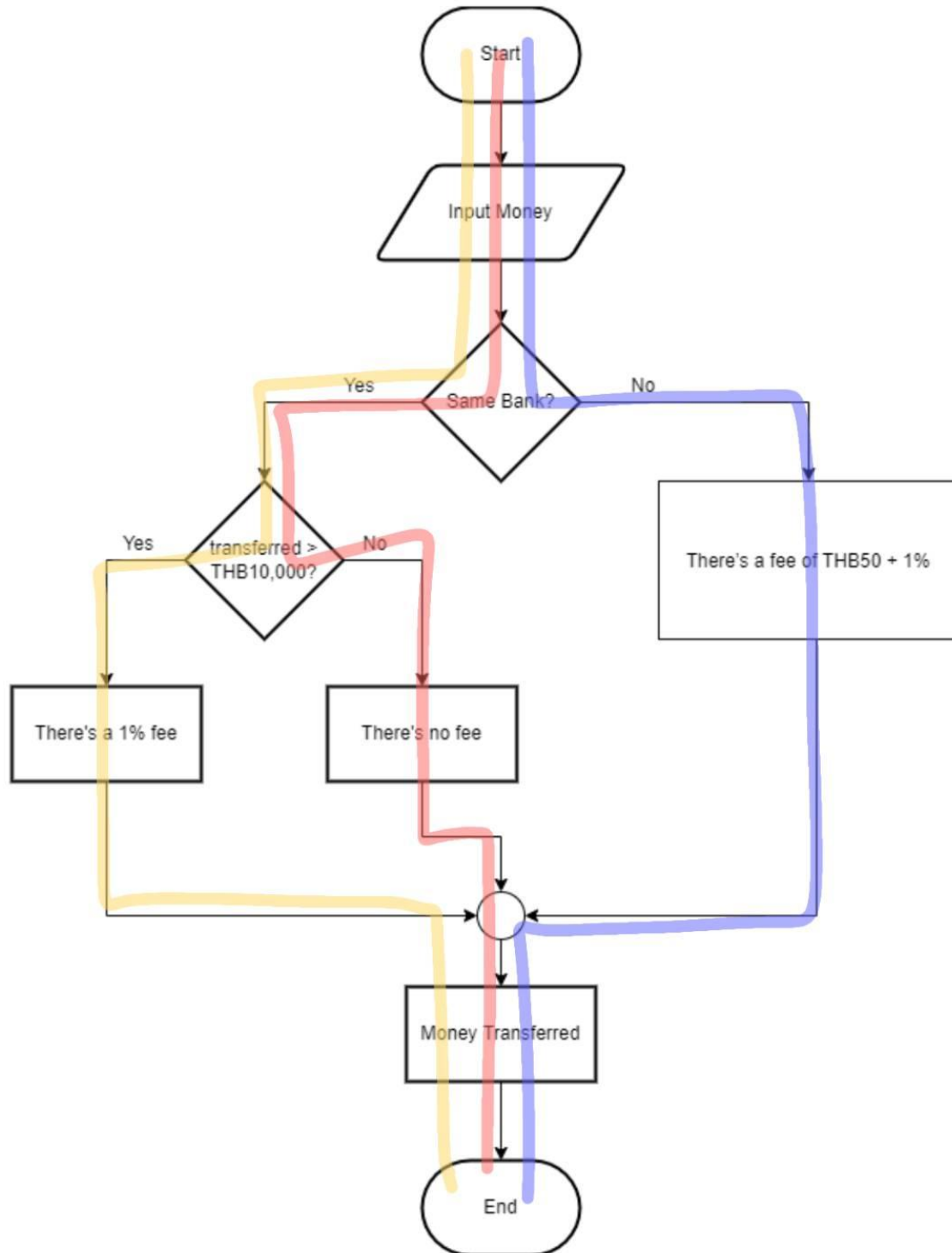
Test Case:

Test Cases	Inputs	Expected Results	Coverage
1. When username and password are matched.	- Input the correct username and password	Access Granted	Lines 1 - 4 Red Line
2. When username and password don't match but matched within 3 tries.	- Input correct username but wrong password - Input correct password but wrong username - Correct input within 3 tries	Failed to access, but the username and password match within 3 tries.	Lines 1 - 8 Yellow Line
3. When username and password	- Input correct username but wrong password	Log in info sent via email, access granted	Lines 1 - 12 Green Line

<p>don't match, but it exceeds 3 tries, and answer the secret question correctly</p>	<p>- Input correct password but wrong username - Incorrect input exceeds 3 tries</p>		
<p>4. When username and password don't match, but it exceeds 3 tries, and answer the secret question incorrectly</p>	<p>- Input the correct answer</p>	<p>Access Denied</p>	<p>Lines 1 - 14 Blue Line</p>

Scenario 2 - Money Transfer

Flowchart:



Pseudocode:

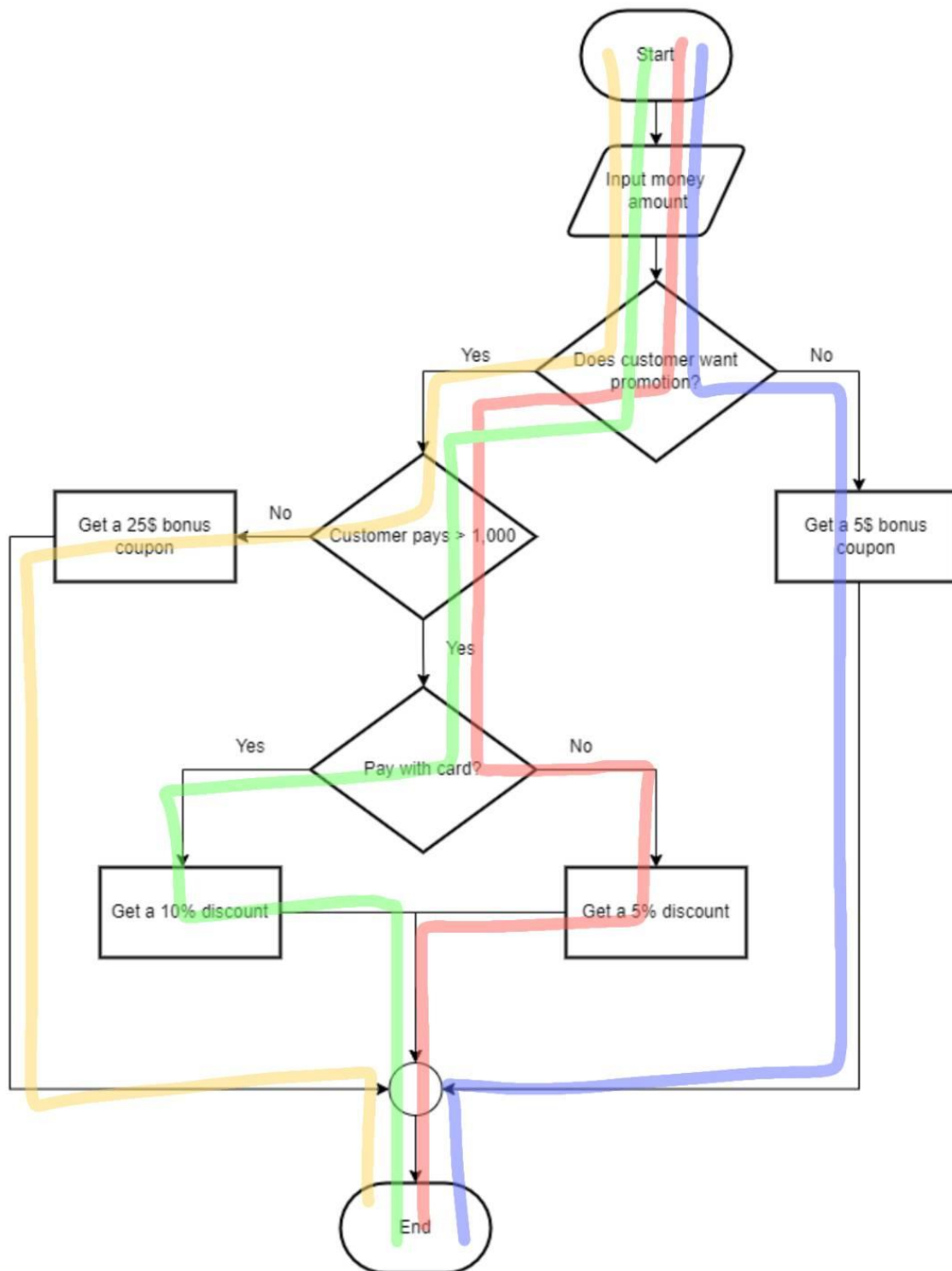
```
START
1   Input the money
2   If the money is transferred to the same bank
3       If the transferred amount > THB10,000
4           There's a 1% fee
5       Else
6           There is no fee
7   Else
8       There's a fee of THB50 + 1%
END
```

Test Case:

Test Cases	Inputs	Expected Results	Coverage
1. When money > THB10,000 is transferred to the same bank	- Input the money - Transferred to the same bank > THB10,000	- There's a 1% fee	Lines 1 - 4 Yellow line
2. When money < THB10,000 is transferred to the same bank	- Input the money - Transferred to the same bank < THB10,000	- There's no fee	Lines 1 - 6 Red line
3. When money is transferred to a different bank	- Input the money - Transferred to a different bank	- There's a fee of THB50 + 1%	Lines 1 - 8 Blue line

Scenario 3 - Sales promotion

Flowchart:



Pseudocode:

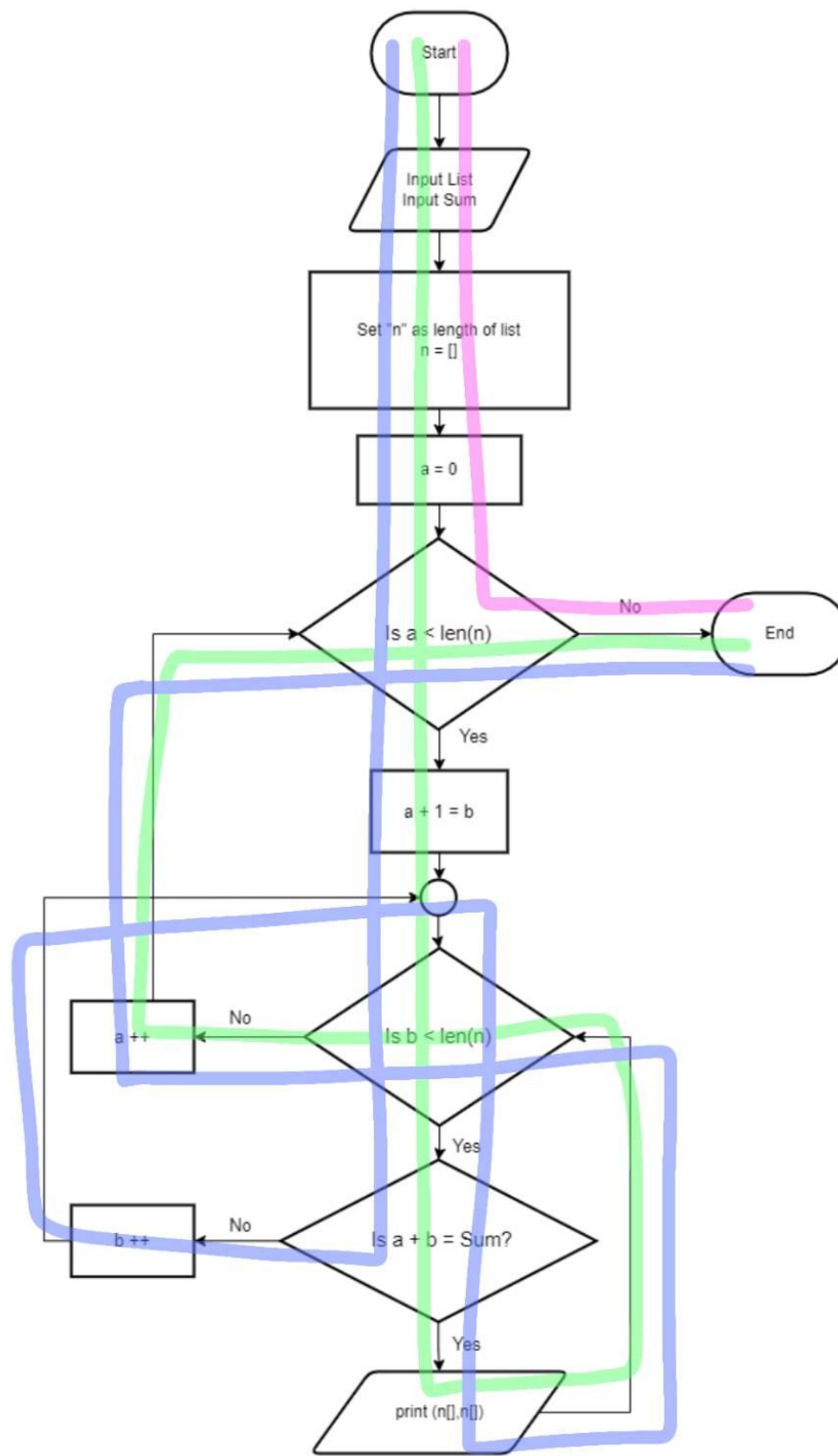
```
START
1   Input money amount
2   If the customer wants a sales promotion
3       If customer pays > 1,000
4           If pay with a card
5               Then they get a 10% discount
6           Else
7               They get a 5% discount
8       Else
9           Then they get a 25$ bonus coupon
10  Else
11      They get a 5$ bonus coupon
END
```

Test Case:

Test Cases	Inputs	Expected Results	Coverage
1. When customer wants a promotion and pays > 1,000 with a card	- Input the money amount - Wants a promotion - Pays > 1,000 and with a card	They get a 10% discount	Lines 1 - 5 Green line
2. When customer wants a promotion and pays > 1,000 with no card	- Input the money amount - Wants a promotion - Pays > 1,000 and with no card	They get a 5% discount	Lines 1 - 7 Red line
3. When customer wants a promotion and pays < 1,000	- Input the money amount - Wants a promotion - Pays < 1,000	They get a 25\$ bonus coupon	Lines 1 - 9 Yellow line
4. When customer doesn't want a promotion	- Input the money amount - Doesn't want a promotion	They get a 5\$ bonus coupon	Lines 1 - 11 Blue line

Scenario 4 - Find all pairs of numbers in a given list that sum to a given value

Flowchart:



Pseudocode:

START

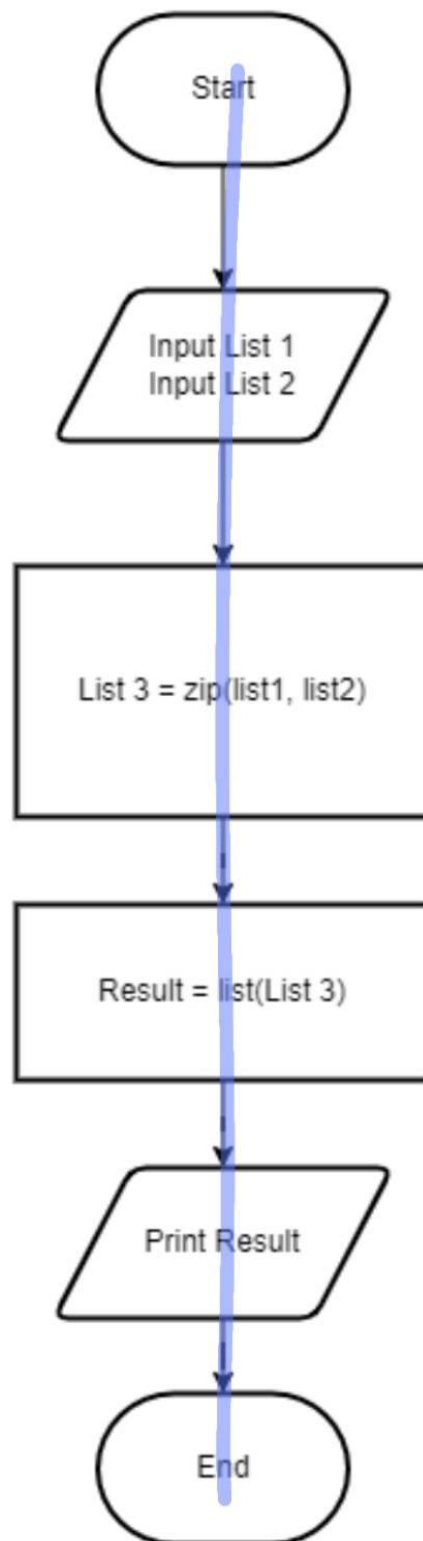
```
1   Input the list
2   Input the sum
3   Set "n" as the length of list
4   n = []
5   a = 0
6   For a in range of (0,n)
7       For b in range of (a + 1, n)
8           If the sum of a and b is equal to the sum
9               Then print (n[], n[])
END
```

Test case:

Test Cases	Inputs	Expected Results	Coverage
1. When it can be paired with duplicate numbers in the list	- Input list and sum - Ex: [1,2,3,4,5,6,7] Sum = 8	[1,7], [2,6], [3,5]	Lines 1 - 7 Green line
2. When it can be paired without duplicate numbers in the list	- Input list and sum - Ex: [1,2,7,7] Sum = 8	[1,7]	Lines 1 - 7 Blue line
3. When it can't be paired	- Input list and sum - Ex: [2,4,5] Sum = 8	Empty set []	Lines 1 - 7 Pink line

Scenario 5 - Combine two lists by alternately taking elements

Flowchart:



Pseudocode:

START

```
1   Input list 1
2   Input list 2
3   List 3 = zip(list1, list2)
4   Result = list(List 3)
5   print(List 3)
```

END

Test Case:

Test Cases	Inputs	Expected Results	Coverage
1. When both the lists have the same length	- List 1 = [1,2,3] - List 2 = [a,b,c]	List 3 = [1,a,2,b,3,c]	Lines 1 - 5 Blue line
2. When list 1 is longer than list 2	- List 1 = [1,2,3,4] - List 2 = [a,b,c]	List 3 = [1,a,2,b,3,c,4]	Lines 1 - 5 Blue line
3. When list 2 is longer than list 1	- List 1 = [1,2,3] - List 2 = [a,b,c,d]	List 3 = [a,1,b,2,c,3,d]	Lines 1 - 5 Blue line