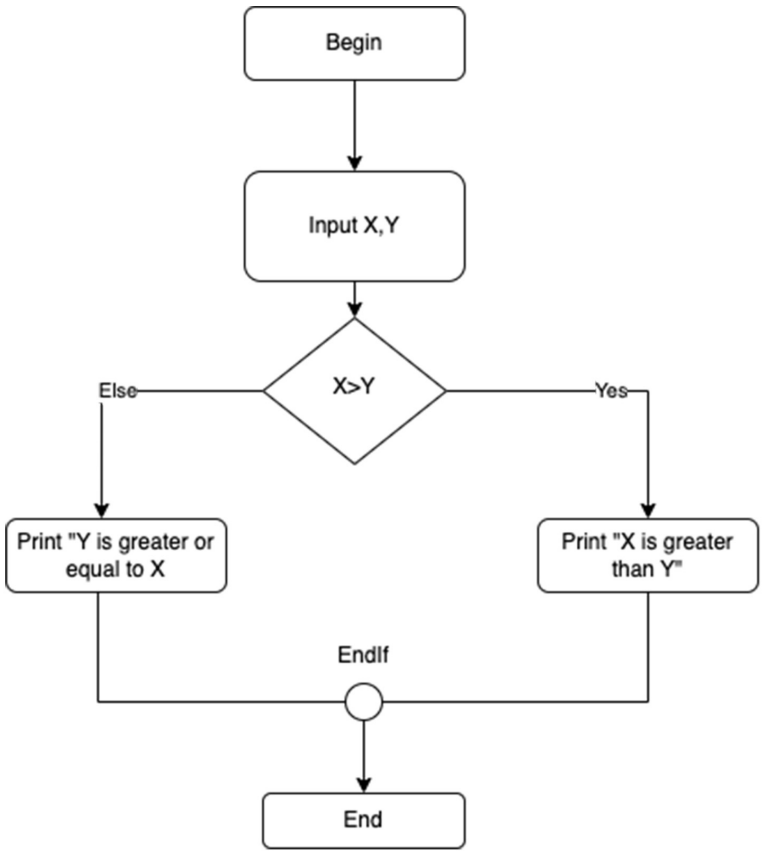
Task#1 Display pseudocode as a flowchart.

```
Begin
Input X, Y
If X > Y
__Print (X, 'is greater than', Y)
Else
__Print (Y, 'is greater than or equal to', X)
End If
End
```

What is the minimum number of test cases required to guarantee 100% statement and 100% decision coverage?

A. Statement coverage = 3, Decision coverage = 3
B. Statement coverage = 2, Decision coverage = 2
C. Statement coverage = 1, Decision coverage = 2
D. Statement coverage = 2, Decision coverage = 1

Decision:



Logical answer (b) because in 2 statement coverage and 2 decision coverage we pass 100%

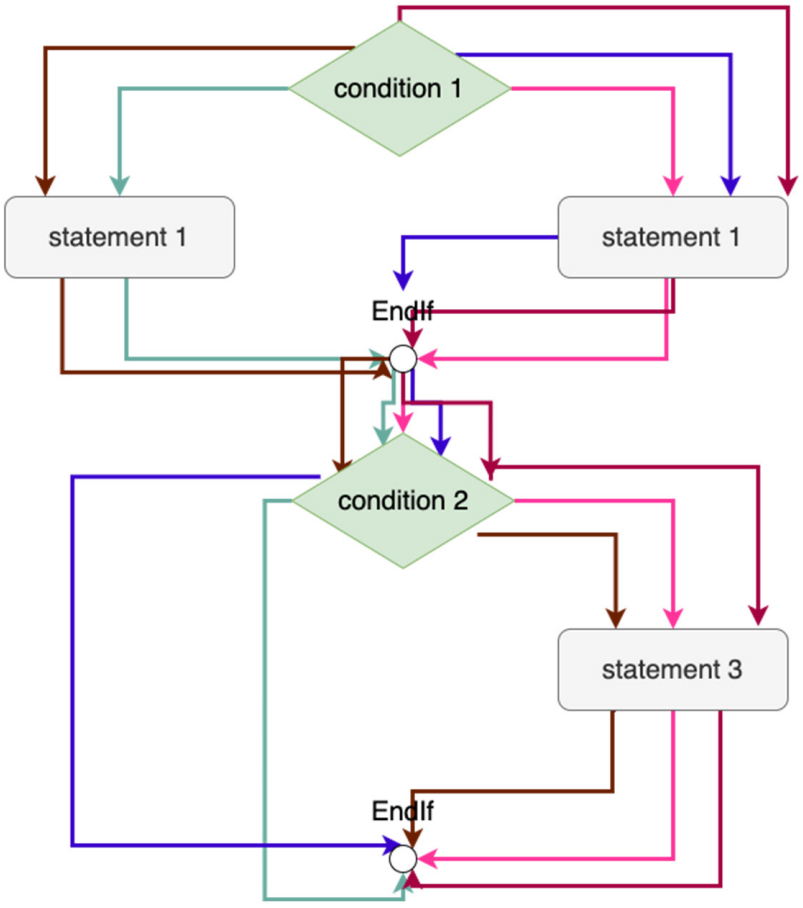
Task#2 Display pseudocode as a flowchart.

```
if (Condition 1)
then statement 1
else statement 2
fi
if (Condition 2)
then statement 3
fi
```

What is the minimum number of test cases required to guarantee 100% path coverage?

A. 1
B. 2
C. 3
D. No answer is correct

Decision: /D. No answer is correct.
I think you need 5 tests (multi-colored arrows)



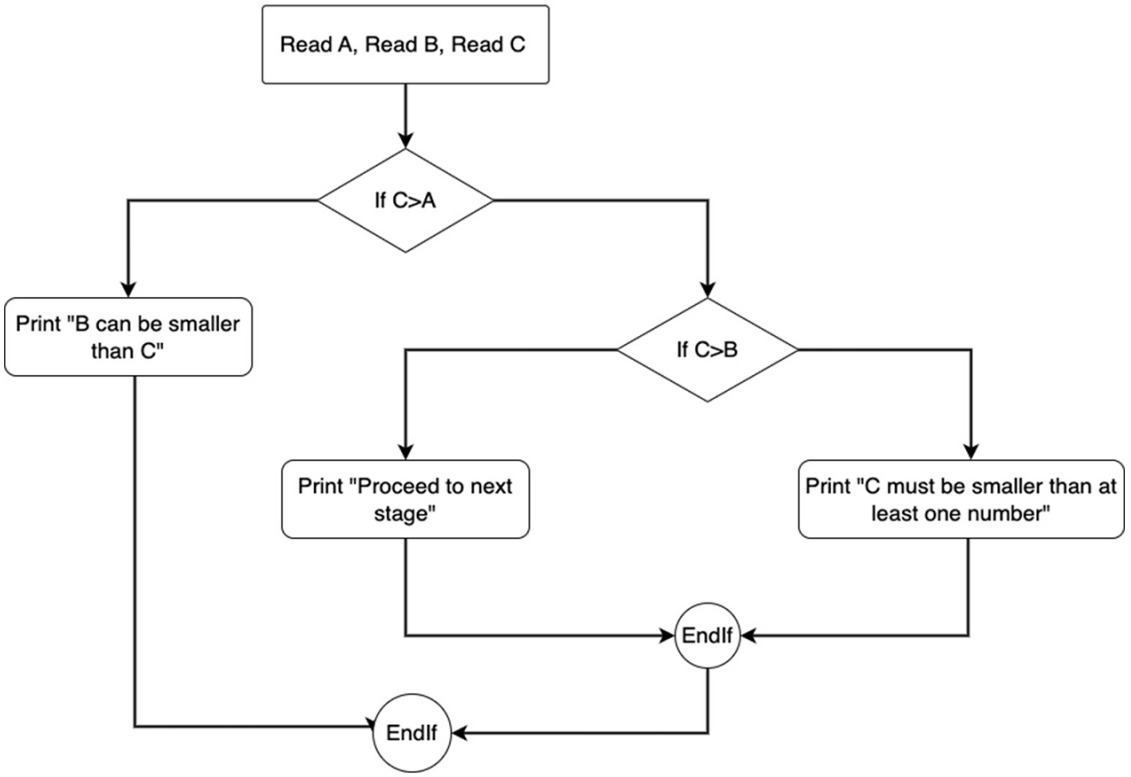
Task#3 Display pseudocode as a flowchart.

```
READ A READ B READ C
IF C>A THEN
IF C>B THEN
PRINT 'B can be smaller than C'
ELSE PRINT 'Proceed to next stage'
END IF
ELSE PRINT 'C must be smaller than at least one number'
END IF
```

What is the minimum number of test cases required to guarantee 100% statement and 100% decision coverage?

A. 2, 4
B. 3, 2
C. 3, 3
D. 2, 3

Decision:



I think that the correct answer is C because we need to pass 3 statement and 3 decision tests

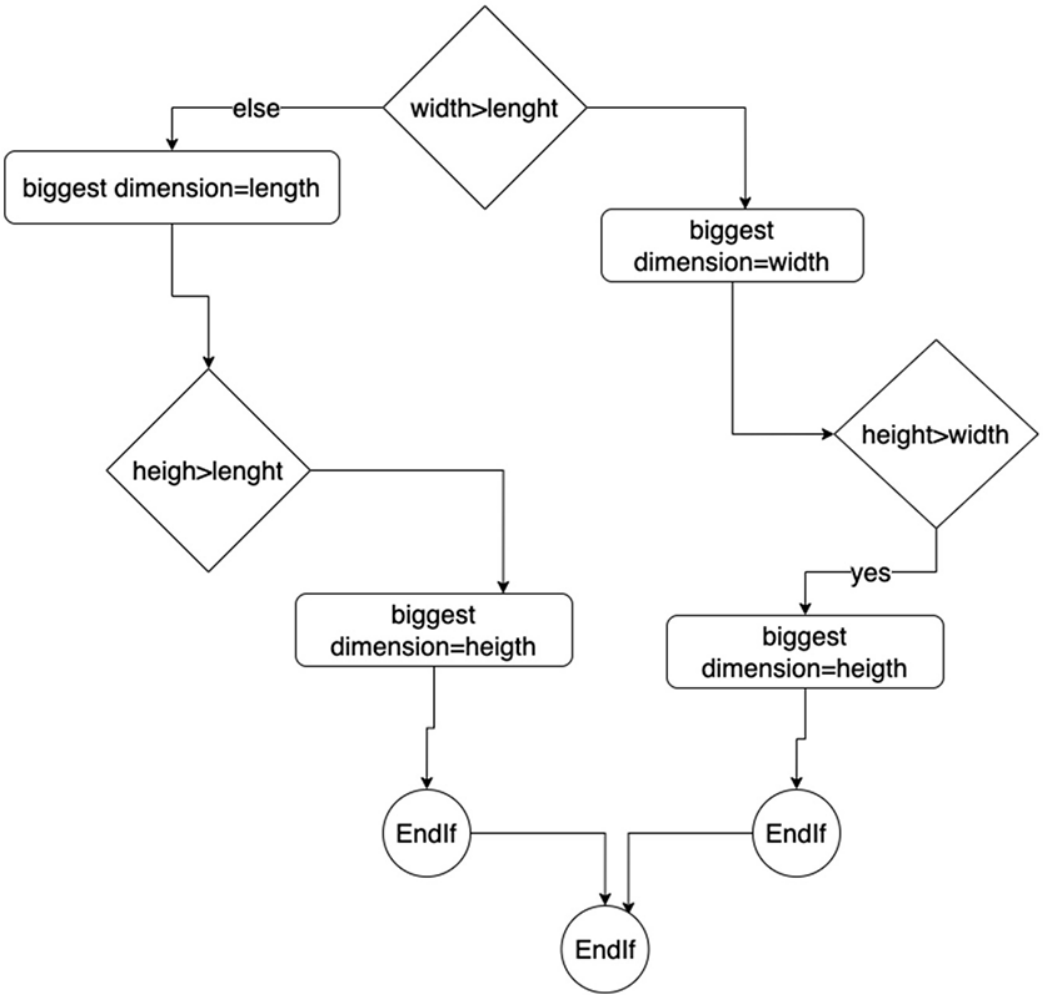
Task#4 Display pseudocode as a flowchart.

```
if width > length
then biggest_dimension = width
if height > width then biggest_dimension = height
end_if
else biggest_dimension = length
if height > length then biggest_dimension = height
end_if
end_if
```

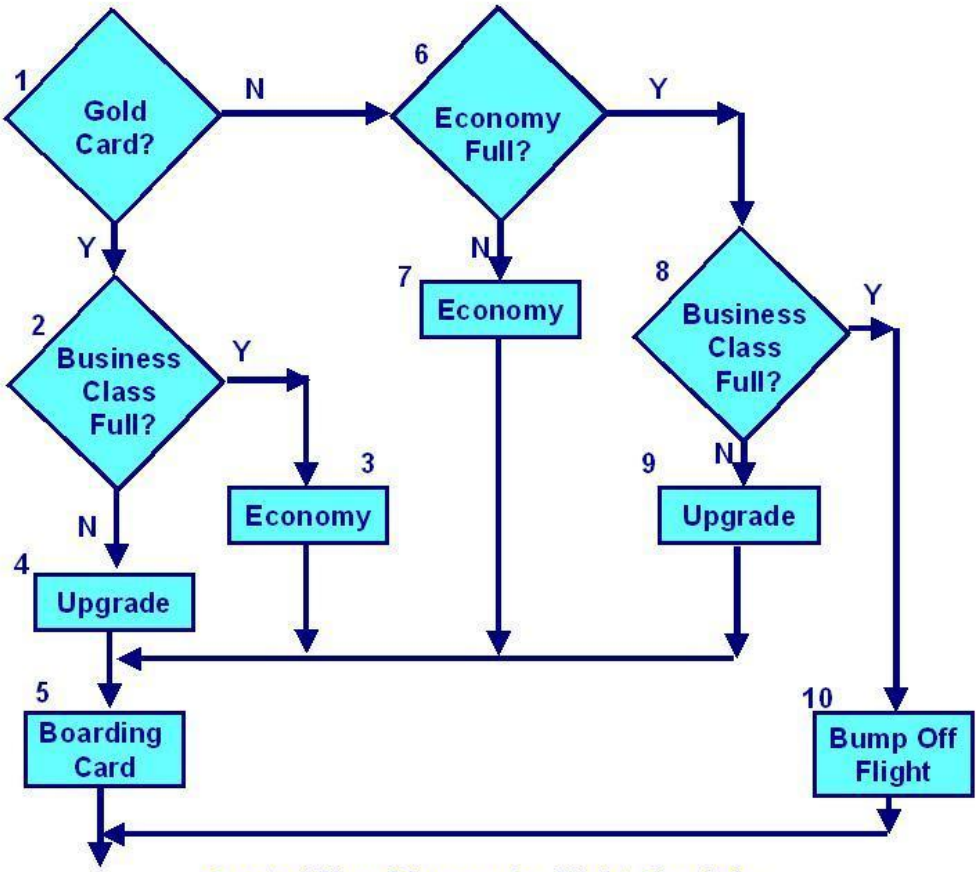
What is the minimum number of test cases required to guarantee 100% decision coverage?

A. 3
B. 4
C. 1
D. 2

Decision: I hope that D because I got 2 branches:))



Task#5 If you fly in economy class, you can be upgraded to business class, especially if you have an airline gold card for private flights. If you do not have a gold card, you may be kicked off the flight if the plane is overcrowded or you are late for check-in. All these conditions are shown in the diagram below. Please note that all statements are numbered.



Control Flow Diagram for Flight Check-in

You run 3 tests:
Test 1 - Gold card holder upgraded to business class.(1-2-4-5)
Test 2 - A passenger without a gold card remains in economy class.(1-6-7-5)
Test 3 - The passenger who was "thrown" off the flight.(1-6-8-10)
What is the statement coverage (coverage of operators) of the three tests?

A. 60%
B. 70%
C. 80%
D. 90%

Decision: We run three tests:

1. Gold card holder upgraded to business class
2. A passenger without a gold card stays in economy class
3. The passenger was kicked off the flight

Involved statements: 1,2,4,5,6,7,8 and 10
So, 8;10*100%=80%_____correct answer is C