LAB-MID

Software Test

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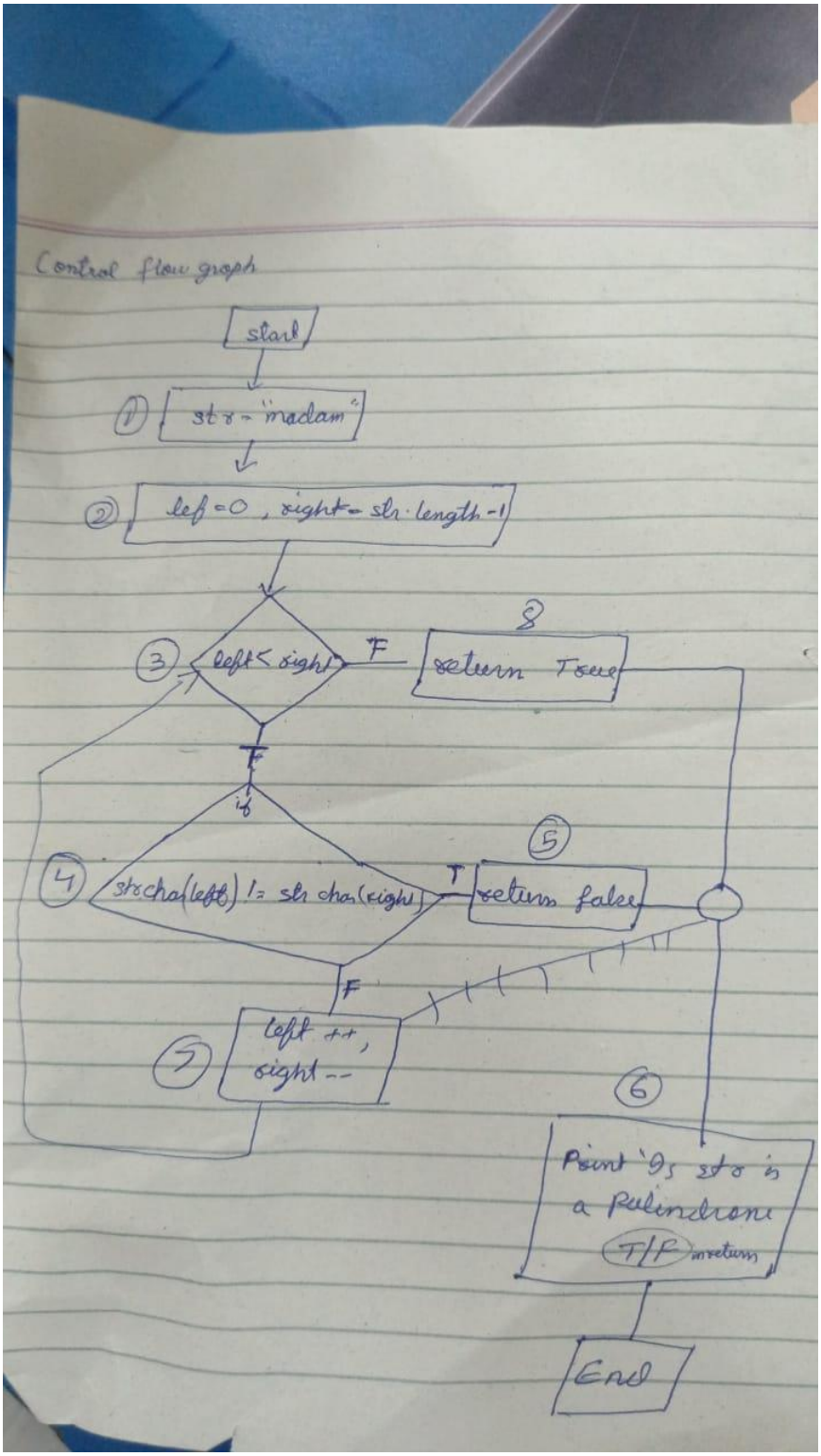
CFG:


Control flow graph
start
1
str = "madam"
2
left = 0, right = str.length - 1
3
left < right
F
8
return True
T
if
4
str.charAt(left) != str.charAt(right)
T
5
return false
F
7
left ++,
right --
6
Print 'g, str is a Palindrome
T/F in return
End

- Path:

1. 1,2,3,8,6
2. 1,2,3,4,5,6
3. 1,2,3,4,7,3,8,6

- Test cases:

T-id	Path	Input data	Output data
01	1,2,3,8,6	STR=”” ‘EMPTY STRING’	Return TRUE Palindrome
02	1,2,3,8,6	str:”a”	Return TRUE true Palindrome
03	1,2,3,4,5,6	STE=’apple’	Return FALSE
04	1,2,3,4,7,3,8,6	STR=’race car’	Return TRUE

Test file link:

https://github.com/Waleed-070/software-testing/commit/dd318a7bed56d0800f54683cd7c89b6279bfe8af