

Question 2 – Sleeping Barber Problem

Test cases

These test cases are tested with number of chairs set to 5

Test case id	Test scenario	Test steps	Test inputs	Expected output	Actual result	Pass/Fail
1	Client come for a haircut while barber is sleeping	1. Enter command C 2. Enter client's name	name = p1	Barber is sleeping, p1 wake up barber and gets a haircut.	As Expected	Pass
2	Client comes, barber is busy and chairs in waiting room are available	1. Enter command C 2. Enter client's name	name = p2	Barber is busy, p2 went to waiting room.	As Expected	Pass
3	Client comes, barber is busy and no chairs available in waiting room	1. Enter command C 2. Enter client's name	name = p6	Barber is busy and waiting list full, p6 leaves.	As Expected	Pass
4	Barber finish haircut and there are clients in waiting room	1. Enter command F		p4 got a hair cut, barber checks the waiting room, p5 goes to barber room and gets a haircut.	As Expected	Pass
5	Barber finish haircut and there are clients in waiting room	1. Enter command F		p5 got a hair cut, no clients in waiting room. Barber sleeps.	As Expected	Pass

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Enter command:C
Enter person name: p1
Barber is sleeping, p1 wake up barber and gets a haircut.
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Figure 1 – Screenshot of test case 1

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Enter command:C
Enter person name: p2
Barber is busy, p2 went to waiting room.
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Figure 2 – Screenshot of test case 2

```
Enter command:C
Enter person name: p6
Barber is busy and waiting list full, p6 leaves.
```

Figure 3 – Screenshot of test case 3

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Enter command:F  
p4 got a hair cut, barber checks the waiting room, p5 goes to barber room and g  
ets a haircut.
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Figure 4 – Screenshot of test case 4

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Enter command:F  
p5 got a hair cut, no clients in waiting room. Barber sleeps.
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Figure 5 – Screenshot of test case 5