

Queue Problem

Phone calls made to customer service hotlines are usually place in a queue. Phone number received first are answered first up to n.

Sample Output:

Caller's phone number are inputted:

```
C:\Users\Kaye\OneDrive\Documents\BSCS\2nd Year\CSIT221\Activities\Bonus\Print Queue.exe
Print Menu
[1] Caller
[2] Pending Calls
[3] Answer calls
Enter choice: 1

Phone number: 3

Do you wish to go back to menu(1/0)?
```

Check the pending calls

```
C:\Users\Kaye\OneDrive\Documents\BSCS\2nd Year\CSIT221\Activities\Bonus\Print Queue.exe
Print Menu
[1] Caller
[2] Pending Calls
[3] Answer calls
Enter choice: 2

Pending call(s): 1 2 3

Do you wish to go back to menu(1/0)?
```

Answering the call – since 1 is the first caller he/she is answered first

```
C:\Users\Kaye\OneDrive\Documents\BSCS\2nd Year\CSIT221\Activities\Bonus\Print Queue.exe
Print Menu
[1] Caller
[2] Pending Calls
[3] Answer calls
Enter choice: 3

Answering number: 1

Do you wish to go back to menu(1/0)?
```

Check the pending calls again

```
C:\Users\Kaye\OneDrive\Documents\BSCS\2nd Year\CSIT221\Activities\Bonus\Print Queue.exe
Print Menu
[1] Caller
[2] Pending Calls
[3] Answer calls
Enter choice: 2

Pending call(s): 2 3

Do you wish to go back to menu(1/0)?
```

And the process continues until callers is empty.

```
C:\Users\Kaye\OneDrive\Documents\BSCS\2nd Year\CSIT221\Activities\Bonus\Print Queue.exe
Print Menu
[1] Caller
[2] Pending Calls
[3] Answer calls
Enter choice: 3

No more callers
Do you wish to go back to menu(1/0)?
```

```
C:\Users\Kaye\OneDrive\Documents\BSCS\2nd Year\CSIT221\Activities\Bonus\Print Queue.exe
Print Menu
[1] Caller
[2] Pending Calls
[3] Answer calls
Enter choice: 2

No more callers
Do you wish to go back to menu(1/0)?
```

Source of the problem:

[1] Stacks and Queues. [Online]. Available:
https://courses.cs.washington.edu/courses/cse373/03au/lectures/stacks_queues.pdf.

