# ECE 321 SOFTWARE REQUIREMENTS ENG (LEC A1 Fa18)

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## **Assignment 3**

#### **Submission status**

Attempt number	This is attempt 1 ( 1 attempts allowed ).
Submission status	Submitted for grading
Grading status	Graded
Due date	Thursday, 1 November 2018, 11:00 PM
Time remaining	Assignment was submitted 2 days 1 hour early
Last modified	Tuesday, 30 October 2018, 9:20 PM
File submissions	✓ Arun Woosaree Assignment3.pdf + Export to portfolio
Submission comments	Comments (0)

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### Feedback

Grade	97.50 / 100.00
Graded on	Tuesday, 27 November 2018, 3:05 AM
Graded by	Ahmed Chaari

#### Feedback comments

```
****** I will use (Fix This!) for the section that is wrong in Your code
***** Solution ******
for all [q1: Queue; q2: Queue; c1: Car; c2: Car; c3: Car; i1: Integer]
 CarDeparts(New) = error;
 CarDeparts(CarArrives(c1, q1)) =
  if (IsEmpty(q1) = = true)
   then New;
  else CarArrives(c1, CarDeparts(q1));
 IsEmpty(New) = true;
 IsEmpty(CarArrives(c1, q1)) = false;
 NumberOfCars(New) = 0;
 NumberOfCars(CarArrives(c1, q1)) = NumberOfCars(q1)+1;
 Longer(New, i1) = false;
 (better !!)
 Longer(CarArrives(c1, q1), i1) =
  if (NumberOfCars(q1) = = i1)
   then true;
  else Longer(q1,i1);
 FirstCar(New) = error;
 FirstCar(CarArrives(c1, q1)) =
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if (IsEmpty(q1) = = true)
   then c1;
  else FirstCar(q1);
 Equal(New, New) = true;
 Equal(New, CarArrives(c1, q1)) = false;
 Equal(CarArrives(c1, q1), New) = false;
 Equal(CarArrives(c1, q1), CarArrives(c2, q2)) =
  if (NumberOfCars(q1) = = NumberOfCars(q2))
   then true;
  else false;
 WhichQueue(New, New, c3) = 0;
 WhichQueue(CarArrives(c1, q1), New, c3) =
  if (c1 = c3) then 1;
  else WhichQueue(q1, New, c3);
(better !!)
 WhichQueue(New, CarArrives(c1, q1), c3) =
  if (c1 = c3) then 2;
  else WhichQueue(New, q1, c3);
(Fix This !!)
 WhichQueue(CarArrives(c1, q1), CarArrives(c2, q2), c3) =
  if (c1 = c3) then 1;
  else
   if (c2 = c3) then 2;
   else WhichQueue(q1, q2, c3);
 Position (c1, New) = -1;
```

```
Position (c1, CarArrives(c2, q2)) =

if (c1 = = c2) then NumberOfCars(q2);

else Position (c1, q2);

end QueueOfCars;
```

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