

## Bachelor of IT (Computer Science) Assignment Title Course

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## 1 Algorithm Design

## 1.1 FirstComeFirstServed Method

This method is used to schedule jobs using the first come first served algorithm. It achieves this by sorting the jobs in the job collection by their arrival time and then adding them to the schedule in the order they were sorted.

```
ALGORITHM FirstComeFirstServed()

// Let (n) be count

// Returns a new array of jobs sorted by their arrival time A \leftarrow J.ToArray()

for i \leftarrow 0 in n - 1 do

for j \leftarrow 0 in n - 2 do

if A[j].arrivalTime > A[j + 1].arrivalTime

temp \leftarrow A[j]

A[j] \leftarrow A[j + 1]

A[j + 1] \leftarrow temp

return A
```

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- 2.1 Jobs ADT
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- 3.1 Jobs ADT
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