

Lab 08 Activity
C2 Batch

Date: 10 Oct 2017



Data Structures and Algorithms

Activity Details: Team Formation



- Form 7 teams
 - Members in each team: [3 to 5]



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- o7 Teams and o7 Undertakings by each team
- Fill up the details and return back the sheet provided to you with:
 - Team Number
 - Team Members Name
 - Roll numbers

[off-course with a small twist]





- For the question provided to you, understand and note the purpose of the task.
- Make sure your description is
 - Clear
 - Specific
 - Unambiguous
 - Correct
 - Valid
 - Simple
 - Realistic







Write the **description** of the task in the form of:

```
ALGORITHM Name(Params)

// Write the purpose here – short description of task

// carried out

// Input:

// Output:
```





Write an algorithm after reading the task description.

Following conventions need to be followed:

- Use ← for assignment
- Use = for comparison
- for loop: for i ← o to n-1 do
- while loop: while *condition* do
- Use return statement
- Indent the code
- Free to decide on other conventions





Identify and write the **Basic Operation**

- What is a Basic Operation?
 - The most important operation of the algorithm
 - Contributes most to the total running time
 - Most time consuming operation
 - One in innermost loop





Identify if the algorithm has

- Best Case
- Average Case and
- Worst Case analysis

Or

only one **General** analysis





Perform Efficiency Analysis:

- Set up a mathematical equation
- Solve the equation
- Comment on the efficiency obtained
- Identify the order of growth
- Write conclusion





Task Implementation:

• The further implementation details are made available to you in labo8-c2.pdf





Thank you.



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