Object Oriented Programming

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Teamwork

Teamwork: Potential Problems

- Disruptive team member
- Dominant team member
- Social Loafer
- Group with no leadership (ineffective Chair person)

Teamwork: The Right Team

- Describe a good experience of teamwork that you have had
  - Why was it good?
- Describe a bad experience of teamwork that you have had
  - Why was it bad?
  - What would you do differently next time?

Teamwork: Characteristics of a Good Team

- Working in groups of 5
  - List 5 characteristics of a good team
  - List 5 attributes of a good team member
  - List 5 things a group can do to work effectively
- Working on your own
  - List 3 questions you would like to ask someone before agreeing to work with them in a team

Communication

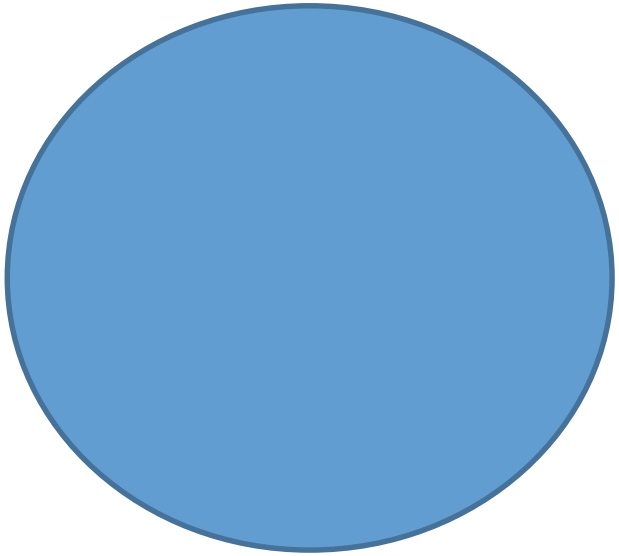
Communication:

- This exercise should be carried out without any speaking. In each row, arrange yourselves in order according to the month you were born in.
- Now we are going to count from 1 to 100 as a class. Everyone must face the front of the room. Anyone may start. Someone new must say each new number. No two people can speak at the same time. If they do, we start again.

Critical Thinking

Critical Thinking: Task 1

- List all the things that you can think of that this picture could represent



Reflection

- Count the number of answers for the team
  - Don’t count duplicate answers
- Who is the most creative contributor?
- How many solutions have emerged from the team?

Critical Thinking: Task 2

- A friend of yours is a real cheapskate, a relentless penny-pincher. Then one day, he starts behaving just the opposite, spending money recklessly, buying lavish gifts for all around him, etc. Think of explanations that might account for this change of behavior.

Reflection

- Count the number of answers for the team
  - Don’t count duplicate answers
- Who is the most creative contributor?
- How many solutions have emerged from the team?

Critical Thinking: Task 3

- Imagine that you own a very valuable diamond that you refuse to turn over to a bank or other agency for safekeeping. Where would you hide it so that it is difficult for anyone to find it?

Reflection

- Count the number of answers for the team
  - Don’t count duplicate answers
- Who is the most creative contributor?
- How many solutions have emerged from the team?

Problem Solving

Problem Solving: Quiz

- Form groups of 5
- You will now be asked 10 questions
- Write your answers on a piece of paper with your team name on top
- Now exchange answer sheets with the group beside you
- Add up the number of correct answers
- Return the answer sheet to the right group
- Who got all 10 answers?!

Problem Solving: Steps

- Understand the problem
  - State the problem in your own words
- Make a plan for solving the problem
  - Outline a number of possible solutions
  - Choose the most appropriate solution
- Solve the problem by following the plan
- Reflect on the solution
  - Does the solution meet the requirements as outlined in the problem?

The Problem

- App to enhance students' understanding of key maths, science and technological subjects
- Targeted at second level students, 1st – 6st Year

The Problem

- Working in teams of 4 people you will build a fully functional prototype for your app using java
- The representative group of potential users will review the prototypes at the end of the semester
- The app must consist of 4 distinct sections
- Each member of the team will take responsibility for the development of one of these sections
- All sections should then be combined in one complete seamless package
- In the circumstance where a group has less than 4 members, each member still takes only one section each