

Turiba University

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Flow Charts Analysis

PROFESSIONAL BACHELOR THESIS

Computer Systems

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Objective

In this report, I am going to analyze the flowcharts of my groupmate (Ekhlas), I will carefully point out the mistakes that he made while making the flowcharts.

Also, I will suggest the points of improvement that must be followed to make the flowcharts look clean, well-structured and more representative.

The analysis includes inconsistent use of different shapes and unclear decision logic, missing labels, and incomplete branching.

The following sections include analysis of each flowchart individually and the improvements that could be made to make them clearer both logically and visually.

Flow Chart – 1 (Making a tea for Group mate)

This flowchart was supposed to be
Made to explain the process of making
Tea for the groupmate.

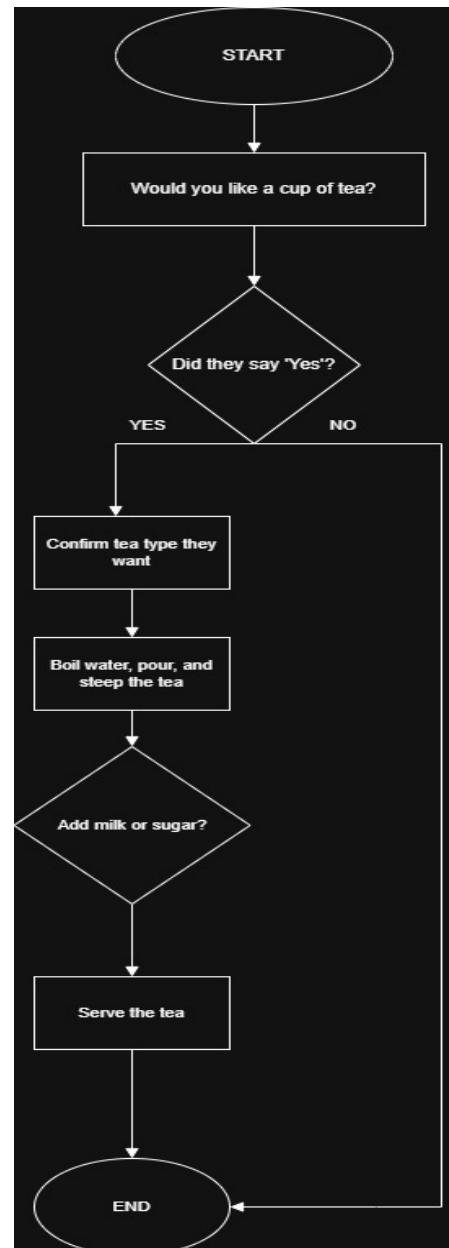
Analysis

For asking a question or taking input
From the user we use the parallelogram
Figure. But in this flowchart he used the
Square brackets instead which makes it
Logically wrong.

One improvement is to use the correct
Figures, that is using parallelogram instead
Of rectangle which have a different purpose
Of showing a process.

While asking add milk or sugar he used
A rhombus that means its a boolean
Question, having only two options of
True or False. But he did not add any two
Different paths after using that, that could
Another improvement to fix this issue.

Overall, the flowchart is not quietly right.
There are multiple areas of improvement.
He used logically wrong shapes, which
Changes the whole meaning differently.



Flow Chart – 2 (Preparing Breakfast for Friend)

This flowchart was supposed to be
Made to explain the process of
Preparing breakfast for one of his friends.

Analysis

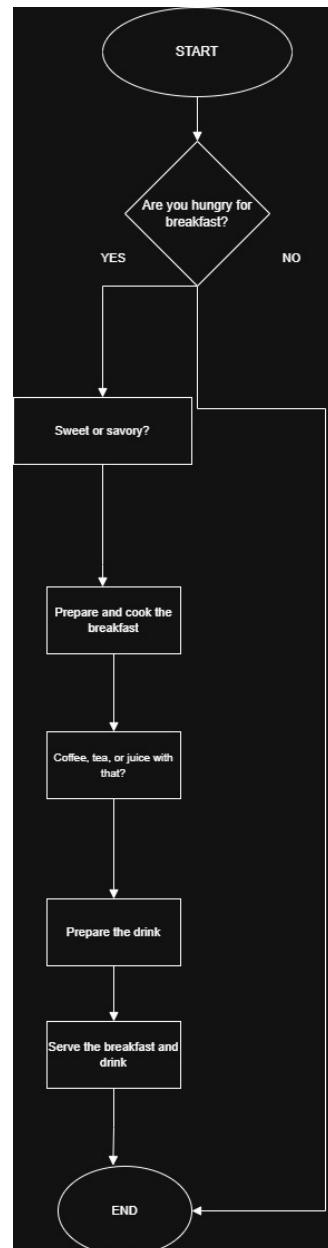
The rhombus is used correctly for asking a little Question in the beginning but the arrows are Not organized and clean, there is a inconsistent turn For the “NO” and the text should also be right on top Of the arrow.

Again, questions like “Sweet or savory” is a single Answer question and should be written in a rhombus To handle both the inputs (yes or no). Rectangle is Primarily used for showing a process. This is a point Of improvements that could be made.

Also, the shapes have inconsistent sizes, some of them are big some are small. This makes the flowchart looks unorganized and not professional. Another improvement will be to resize the shapes.

The use of rectangle for preparing the drink is right As it shows a process.

In the end, serving a drink is an output from the Programming perspective, so there should be Parallelograms used for it, not the rectangle.



Overall, the flowchart was decent; there were some mistakes that could have been avoided. And it will look professional and well-organized if resized. There were also some inconsistencies in using some of the shapes like using a rhombus instead of rectangle or using a rectangle instead of a parallelogram.

Flow Chart – 3 (Offering a drink to Party Member)

This flowchart was supposed to be
Made to explain the process of
Preparing a drink for a party member.

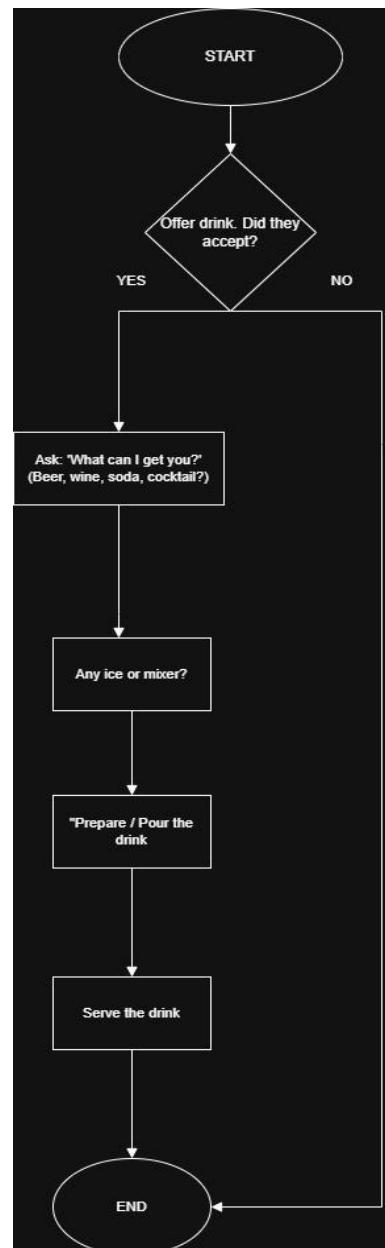
Analysis

Rhombus is used to ask a question, which is the
Correct use showing two different nodes for both
The possibilities.

Again, he used a rectangle for asking about
Something, where logically we are taking a input
So it should have been a parallelogram which is used
For both taking input and output. This is the first and
Crucial point of improvement as it can lead to a very
Different logic of the flow.

And the previous mistake is followed in some more
Following shapes as well.

On the other hand, the use of rectangle for serving
The drink is not quite right as it's logically an output.
So, there should have been a parallelogram again.
As it used for both – taking input and giving outputs.



Overall, the flowchart shows the basic overflow of
The process but the use of shapes makes the logic
To be misunderstood. While there was a consistent use
Of arrows, making it easier to follow through the nodes.

Conclusion

- While analyzing these flowcharts, it shows the basic understanding of making flowcharts for different purposes.
- But there were some common mistakes, showing a misunderstanding about the shape like parallelogram, rectangles, and rhombus. These shapes were misused in certain cases, that can lead to whole different logic, making the real logic not much clearer.
- On the other hand, the use of arrows was very good, as the lines had 90 degrees of angle on every turn. The arrows were big, filled, and 60 degrees angled on each side.
- Another common issue was the sizes of different shapes which were very inconsistent, making it not very organized.

- Overall, the flowcharts were holding the meaning of the process that they were representing, while it could also be misunderstood. So, with the suggested improvements, it would provide a clear, more organized, and professional look.
- From my perspective, he lacks understanding of the accurate uses of different shapes and standards while making a flow chart. So, I would **rate** these flowcharts a **5**